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**ASM FIVE STAR AWARD OF EXCELLENCE 2010★★★★★ 2011**

## Meeting Notice – ASM & SWE JOINT MEETING

Wednesday, September 21, 2011

### Meeting Sponsors:

**Akron Heat Treating / ALFE Heat Treating/ H&M Metal Processing**

**RESERVATIONS Requested by: Monday, September 19, 2011 by 2:00 p.m.**  
*Walk-ins are welcome\*\*\*\* Reservations not canceled 2 days prior to meeting will be invoiced as we must pay for meals reserved.*

**ASM CONTACT:** Technical Chair: **Dave Houser, Babcock & Wilcox Company**  
dphouser@babcock.com 330-860-1788

**SWE CONTACT:** Technical Chair: **Elizabeth Crookston, Babcock & Wilcox Company**  
ecrookston2@babcock.com 330-860-1592

### **Topic: Micro-pitting in Bearings**

Wind energy is becoming more important to society as we move toward alternate and more environmentally friendly energy sources. To harness the wind, a complex powertrain is typically involved to step up the slow speed of the turbine blades to the high speed required by the generators. The mechanisms required to do this are all put on top of a large tower, so weight is very important as is reliability with minimal routine service. All of this is done in locations as diverse as the Mojave Desert and the North Sea. Due to all of the non-traditional machine operating requirements, the current industry design practices are being stretched beyond its current knowledge base leading to an increased occurrence of bearing micropitting. This is especially true for the bearing positions inside of the gearbox; however other positions are also experiencing this problem too.

**Speaker: Dr. Gary Doll, Chief Technologist – Tribology and Next Generation Materials, The Timken Company, Canton, Ohio**

Dr. Doll manages and directs global research and development activities in bearing tribology, lubrication and surface engineering. Prior to joining Timken in 1996, Gary was a staff scientist at the General Motors Research Laboratories where he led research and development activities aimed at increasing the power density of powertrain systems and components. Since joining Timken, he has served in several technology roles, including technical director of the Timken Surface Engineering business. Gary has received more than 20 U.S. patents and has published more than 150 papers. He earned bachelor's, master's and doctorate degrees in physics from Marshall University and the University of Kentucky. He is the recipient of NATO and Westinghouse scholarships and was awarded a post-doctoral fellowship in physics at the Massachusetts Institute of Technology. In 2009, he was elected as a fellow of ASM International and is the incoming chair of the ASME Wind Energy Tribology Committee.

**Location: New Era Café, 10 Massillon Rd. Akron, OH 44312, 330-784-0087**  
**Networking: 5:30 p.m. Dinner: 6:30 p.m. Presentation : 7:30 p.m.**

**Cost:** \$20.00 ASM members & spouses / \$22.00 ASM guests / \$15.00 retirees / \$5.00  
ASM Students

\$25.00 SWE members, spouses, & guests

**Buffet:** *Swiss Steak, Chicken Paprikas, Potato, Vegetables, Salad, and Dessert*

**Vegetarians:** Request a vegetarian meal with your reservation.