



ASM/AFS – SME Joint Technical Meeting

Sustaining Members Night

Monday, October 20th, 2014



Overview of Gear Technology Research at Aachen University, Germany & Prediction of Surface Zone Changes in Generating Gear Grinding

For more information and to register,

[CLICK HERE](#)

By 10/17/2014

Location:

East Port Banquet and Meeting Center

703 Mariners Way

East Peoria, IL

Schedule:

4:30 – 5:30

Social Hour

5:30 – 6:00

Dinner

6:00 – 7:00

Tech. Presentation

Details:

Free parking is available. The cost of dinner is subsidized and will be \$18 at the door (\$0 students) for ASM-AFS members, \$24 for all other attendees (\$7 non-member students)

Presentation Abstract:

Aachen University's department of Gear Engineering is the only research facility in Europe that investigates all three relevant areas of gear technology: design, manufacturing and testing. The Gear Technology and Manufacturing research group is dedicated to the investigation of all significant manufacturing processes before and after heat treatment. The performance of gears in terms of load carrying capacity as well as noise behavior is examined by the group. Ranging from standard gears (such as cylindrical gears, helical gears and bevel gears) to more special applications such as beveloids or worm gears, the work of this group is not only limited to experimental activities, but extends to formulating theoretical models, describing excitation behavior and load carrying capacity as well as optimizing case-specific gear sets. The state of the art Universal Gear Test Rig can be adapted to essentially any gear set as well as gear boxes and is also equipped with a certified acoustic sound booth for sophisticated sound pressure analysis. This presentation gives the overview of different Gear research programs at Aachen University and surface zone changes in generating gear grinding.

Presenters: Dr. Markus Brumm / Mr. Florian Hubner

Dr. Markus Brumm

Chair – Laboratory for Machine Tools and Production Engineering, RWTH Aachen University.

Chief Engineer for Gear Technology

Area of Research – Transmission Gears

Mr. Florian Hubner

PhD Student – RWTH Aachen University

Area of Research – Manufacturing Simulation, Gear Grinding, Cutting Force Modeling and WZL Gear Toolbox

For more information and to register [Click Here](#). If you have difficulty using the online form, please RSVP to Rachel Dressler (Dressler_Rachel_L@cat.com) or (309) 494-2499
www.asm-afs-peoria.org