



**Brandywine Valley Chapter of ASM International®  
Joint Meeting with the American Helicopter Society (AHS)  
Meeting Notice for Tuesday, November 11, 2008**

**Location:** The Mendenhall Inn - Route 52, Mendenhall, PA  
<http://www.mendenhallinn.com/TBC/toc.htm>  
*See directions on the second Page*

**Schedule:**

- 6:00 PM SOCIAL, COCKTAILS IN THE BAR  
*No drink ticket is being offered for this meeting*
- 6:30 PM DINNER CHOICES  
[Baked Fillet of Salmon or Roast Prime Rib of Beef – Aus Jus](#)
- 7:30 PM TECHNICAL PRESENTATION

**Price:** AHS Members - **\$28.00**  
Non-members, guests and the second of a couple - **\$35.00** each

**Reservations:** *email:* [dinnermeetings@ahsphilypa.org](mailto:dinnermeetings@ahsphilypa.org) *Phone:* 610-522-4973

Please email or call No later than **noon** on **Friday the 7<sup>th</sup> of November 2008** with your menu selections and member status or guests.

Please note that no special guest or couple rates are available as the AHS is a guest of the ASM.

Making a reservation to attend this meeting commits us to pay for your dinner. If you find you cannot attend, please call in a cancellation before the deadline.

**Title of Presentation: “Low Pressure Vacuum Carburizing and Gas Quenching of Gear Steels”**

Carburized gear steels for rotorcraft have traditionally been atmosphere carburized and oil quenched to produce their optimum properties. Advancements in low pressure carburizing and high pressure gas quenching technologies have now made these processes cost effective and readily available. Our project is to evaluate how these technologies can be implemented on high quality aerospace gears.

**Speakers: Dale Weires and Scott Holder of Boeing Integrated Defense Systems**

Dale Weires is the Lead Engineer for the Metals Staff Group of Materials Engineering at Boeing Rotorcraft in Philadelphia, PA, since joining Boeing in 1995. He is a Technical Fellow in Metallurgy, and holds a Bachelor of Science Degree in Metallurgical Engineering from Michigan Technological University (1984). His responsibilities include technical oversight of the manufacture of gears, bearings and other flight critical components, support of failure investigations, and process development. Prior to joining Boeing, Dale was the Plant Metallurgist for Litton Precision Gear in Chicago, IL and Western Gear Corporation (later Lucas-Western) in City of Industry, CA and in Park City, UT. Dale is a member of the Board of Directors of the Heat Treating Society (HTS) of ASM, and Chairman of the Process and Applications Subcommittee for Technology and Programming of ASM heat treat show and regional seminars. Dale was the Keynote Speaker at the 2004 ASM Symposium “Practical Experience and Applications in Vacuum Carburizing”. Dale is the Vice-Chairman of the American Gear Manufacturer’s Association (AGMA) Metallurgy Committee and a member of the AGMA Aerospace Gearing Committee.

Scott Holder is a Technical Specialist in the Materials Engineering organization at Boeing Rotorcraft of Philadelphia. He holds a Bachelor of Science Degree in Materials Engineering from Drexel University (1988). Scott joined The Boeing Company in 1992 where he has specialized in failure analysis of Drive System and Rotor System components. Scott is recognized as a failure analysis expert within The Boeing Company, supporting technical investigations with Boeing Seattle, Boeing Portland and Boeing Mesa. Prior to joining Boeing, Scott was a Developmental Engineer for Atlantic Metals, in Bridesburg, PA. Scott manages and executes research and development test programs; recent projects include the study of the influence of direct part marking methods on the fatigue life of gear and bearing materials and a study of fretting mechanisms that affect gear materials. Scott has presented technical papers at the AGMA Fall Technical Meeting in 2005 and AHS Spring Conference in 2006.

## **DIRECTIONS TO MENDENHALL INN**

### **FROM PHILADELPHIA OR POINTS NORTH**

**I-95 South** to exit **3B-A** for **US-322 W** toward **W Chester**

Merge onto **Conchester Rd/US-322**

Turn **left** at **Baltimore Pike/US-1/US-322**

Continue straight to stay on **Baltimore Pike/US-1/US-322**

Turn **left** at **Kennett Pike/PA-52**

Mendenhall Inn is just over 1 mile on the left

### **FROM DELAWARE OR POINTS SOUTH**

Take **US-202 N** to **SR-141 N**

Take the ramp onto **Kennett Pike/SR-52**

Continue to follow Kennett Pike, Entering Pennsylvania

Mendenhall Inn is approximately 7 miles into PA and will be on the right

### **FROM NEW JERSEY OR POINTS EAST**

Take Ben Franklin Bridge to I-95 South

Follow directions from PHILADELPHIA OR POINTS NORTH

### **FROM WEST CHESTER OR POINTS WEST**

Take **PA-100 / PA-52 / Price St**

Turn **left** at **S Bradford Ave/PA-100/PA-52**

Continue to follow PA-100/PA-52

Turn **right** at **Lenape Rd / PA-52**

Turn **left** at **E Baltimore Pike / PA-52/US-1**

Slight **right** at **Kennett Pike / PA-52**

Mendenhall Inn is just over 1 mile on the left

If additional directions are needed please contact Mendenhall Inn directly

### **Mendenhall Inn**

323 Kennett Pike. Route 52

Mendenhall, PA 19357

Phone: (610) 388-2100

Fax: (610) 388-1184

<http://www.mendenhallinn.com>