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@ahsphillypa.org Phone: 610-522-4973
Please email or call No later than noon on Friday the 7th of November 2008 with your menu selections and
member status or guests.
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
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Mendenhall, PA  19357
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Fax: (610) 388-1184
http://www.mendenhallinn.com