

May 10, 2005

Topic: The Metallurgy and Materials Science of Golf

Speaker: Bob Haag
Sports Metallurgy/Manufacturing Engineering Consultant

Directions: Cugino's, 1076 Main Street, Newington, CT, Ph: (860) 665-0881
Main Street is Route 176. Cugino's is south of Route 175 (Cedar Street). Use alleyway to parking area in rear.

Agenda: Program Charges:
Cocktails: 5:30-6:30 PM Regular Members - \$28.00
Dinner: 6:30 7:30 PM Retirees - \$15.00
Program: 7:30- 8:30 PM Full Time Students - \$15.00

Technical Chairperson: Rebecca Gatzen
Social Hour Sponsor: TBA

Reservations: Call Ashley at Dynamic Metals (860) 583-3336 by noon May 6th. Thanks!

Abstract: Starting with a brief history of the materials of golf clubs over the last 100 years, Bob will discuss why the materials have been changed and the status of materials in golf clubs today. The effects of materials and engineering on the performance of today's golf clubs will be reviewed. A brief description of the types of graphite shafts will be presented. An in-depth look at the fascinating metallurgy of manufacturing today's steel shafts will be detailed. By the end of the presentation, we'll have a materials excuse for each errant ball that we hit at the September 14 Golf Classic!



Speaker's Bio After receiving his undergraduate degree in Physics and Mathematics, Bob Haag decided to do something interesting, and received his Masters degree from UConn on an Alcoa Aluminum Fellowship. His career has included being a metallurgist in a steel mill, and stints in the bearing, automotive parts, and golf club industries. Along the way, he has been involved in the metallurgy of parts from the runners of Flexible Flyer sleds to the space shuttle. Currently Bob is a metallurgy/manufacturing engineering consultant to sporting goods companies, with projects involving golf clubs, hunting ammunition, fly fishing equipment, and ice boat hardware.

September 14, 2005
Annual Golf Outing Classic
180 West Street-Hebron, CT



June 14, 2005

Awards, Scholarship & Sustaining Members Night
Topic: Inertial Guidance and Control Systems Revisited or UConn Research

Speaker: Steve Kaye or
UConn Student Competition Winner

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Service Award Recipients *



* Service Award Recipients will receive meal discounts based on the number of other recipients in their award group they contact and the number of those recipients attending. Details will be sent to the Service Award Recipients.

Technical Chairperson: Joe Zucco or
Ramamurthy Ramprasad

Social Hour Sponsor: TBA

Reservations: Call Ashley at Dynamic Metals (860) 583-3336 by noon June 10th Thanks!

Abstract: Snowstorms in January and March on the night of our two technical meetings kept attendance down. Those attending agreed that we did not get enough on gyroscope technology and research topics at the University of Connecticut and that these topics should reach a wider audience.

Please check our web site in early May to see which topic and speaker we have confirmed for our June meeting.

Based on the ASM vision "To be the first stop resource for technical knowledge, education, networking and professional development for members and customers in the metals and materials community," the Hartford Chapter's theme this year is Build on our Strengths - Leverage our Diversity - Network to Succeed. This is what we do best.

"Make the choice to serve in a cause larger than your wants, larger than yourself and in your days you will add not just to the wealth of our country, but to its character."

George W. Bush 1/20/05