Chapter News

Puget Sound – Lamborghini and 787s

The Puget Sound chapter had a very interesting joint dinner meeting with SAMPE and SAE on December 11 with a presentation by Dr. Paolo Feraboli discussing composite materials. Dr. Feraboli joined the Department of Aeronautics and Astronautics of the University of Washington in the summer of 2005. He is the Director of the Advanced Composite Structures Laboratory (ACSL), which was named after Automobili Lamborghini in October 2009 following a generous unrestricted fund for its establishment. The presentation, “What do a Lamborghini and 787 have in common?” drew a lot of interest. He has concentrated on out-of-autoclave technologies such as advanced compression molding (ACM), which do not require manual layups, to reduce costs not only for the Lamborghini, but aircraft components on the 787. Production parts on Lamborghinis and 787 were also discussed.

Dr. Paolo Feraboli (left) is introduced by Puget Sound Chapter chairman, Dr. Paul Edwards. Dr. Feraboli showed a new process used by Lamborghini and Boeing that reduces carbon fiber-production costs.

Boston – Design of Stable Nanocrystalline Coatings

Prof. Chris Schuh, chair of Materials Science and Engineering at MIT, was the featured speaker at the first dinner meeting of the 2012-2013 season of the ASM Boston Chapter in Cambridge, Mass. In his September 20 presentation “Harder, Cheaper, Greener: Design of Stable Nanocrystalline Coatings,” he reviewed the basis for producing hard surface coatings through electrodeposition of nanoscale alloys. Precise control of the deposition waveform provides stabilization of the fine grain size by pinning with alloy atoms. Xtalic Corp., which was founded by Schuh and Alan Lund, is developing the technology for wear resistant surfaces such as tractor-trailer bumpers.

In Boston, Chris Schuh answers questions from the audience on the design of stable nanocrystalline alloys for coating applications.

Calgary – Hosts First Five-Day Teachers Camp

The Southern Alberta Institute of Technology (SAIT) Polytechnic hosted an ASM Materials Camp for Teachers in Calgary for the second year in a row. A four-day materials camp was held at SAIT in 2011, but June 18-22, 2012 was the first full five-day camp in Calgary. Both camps were organized in collaboration with the NACE Foundation of Canada. The master teachers were Ed Leong (also host teacher) and Roger Crider. Lunch-and-learn speakers from the sponsor companies provided practical examples of how materials, welding, and corrosion relate to the oil and gas and construction industries in Alberta. The generous support of the many sponsors made the camp possible.

Attendees of the June 2012 Calgary Materials Camp for Teachers learn new lab experiments at SAIT Polytechnic.

VOLUNTEERISM COMMITTEE

Profile of a Volunteer

Ryan DiSabella
Carpenter Technology

You might think it’s hard to convince young professionals to volunteer with ASM – but Ryan DiSabella believes mid-career poses the greater challenge. Ryan, 39, has two young children and a wife who runs the local Parent Teacher Organization. Despite a full plate, Ryan finds great rewards as an active member of the Lehigh Valley, Pa., chapter.

Ryan first attended a few ASM meetings while pursuing a dual major at the University of Pittsburgh. “I was 22 and too young to realize the full value.” But I got more involved with the Lehigh Chapter after encouragement from Dr. Gern Maurer, FASM, current ASM president and the man who hired Ryan at Carpenter Technology, a specialty alloy steel company.

Ryan strongly believes his involvement in ASM has greatly helped his career and benefited him in his current role as department manager for strip finishing. “ASM provided me with leadership development, besides being a great social network in the industry,” says Ryan. “I’ve been chapter president, chair of Membership and Young Members, and I run our annual expo with 20 companies represented, 150 attendees and top notch speakers.”

The Lehigh chapter puts great emphasis on recruiting students at Lehigh University and new employees in the industry. “We’re excellent at bringing in new members to share the tasks and avoid burnout. We’ve got a culture of leadership that makes it fun.”

“ASM is a volunteer organization and if you want to do something good, no one will stop you! You can take an idea like the expo, make the vision work, and really feel rewarded. I consider my volunteering with ASM as one of the best things I’ve ever done.”