

JANNAF PEDCS AND S&EPS CONVENE IN SEATTLE

Attendance topped 200 for the JANNAF 32nd Propellant & Explosives Development and Characterization Subcommittee (PEDCS) and 21st Safety & Environmental Protection Subcommittee (S&EPS) joint meeting held at the Seattle, Washington Airport Hilton Conference Center and Boeing Company from 26-29 July 2004. A total of 120 papers were presented in 16 technical sessions, including a joint session on Green Energetic Materials.

The PEDCS program consisted of six regular paper sessions, four specialist sessions, and seven subcommittee panel meetings. Content was particularly strong in the areas of guns and high gas output devices, liquid propellants and fuels, solid propellant ingredients and formulations, energetics research, and propellant process engineering. Several of the specialist sessions, organized by the Air Force Research Laboratory, dealt with recent research in nano size fuels and catalyst development. The second in a series of PEDCS specialist sessions concerning the status and availability of major solid propellant ingredients was also held. Representatives of several manufacturers were in attendance to brief the JANNAF community on the production status of many critical ingredients used in solid propellant formulations. The ingredients session concluded with a live demonstration of the Web-enabled Propellant & Explosives Ingredients Database (PEID) that is being developed by CPIA with funding from the Air Force and Navy. PEID is scheduled for full release later this year.

The S&EPS technical program consisted of the presentation of 33 technical papers in five sessions, including the co-sponsored Green Energetic Materials session. Topics of other sessions included technologies related to demilitarization, reclamation and reuse of energetic materials and munitions; interaction of energetic materials processing with the environment; range safety, modeling, and instrumentation; and energetic material and ingredient toxicology.

Several S&EPS panel meetings were also held during the week. Members of the joint Green Energetic Materials panel discussed the inclusion of green concepts in the design handbook currently being compiled under the Army's Design for Demilitarization (DFD) initiative. A major point of discussion of the S&EPS Range Safety panel and PEDCS Liquid Propellants Panel was the need to energize the community to revise and update CPIA Publication 394, *Hazards of Chemical Rockets and Propellants*. Under NASA funding, CPIA is currently converting Pub 394 into electronic form and inserting two sections updated by members of S&EPS community over the past several years. Panel members presented ideas for soliciting, reviewing and accepting additional updates to this important document.

Over 120 JANNAF meeting participants and guests enjoyed a Tuesday evening dinner cruise of Puget Sound aboard the Royal Argosy cruise ship. Another two dozen individuals opted for a Wednesday morning tour of Aerojet's Redmond Operations where JANNAF attendees were escorted through the facility's chemistry laboratory, newly expanded and updated propulsion test facilities, and satellite propulsion integration area featuring the twin Solar Terrestrial Relations Observatory (STEREO) spacecraft. Aerojet is providing the spacecraft propulsion systems for the STEREO mission that is being managed by The Johns Hopkins University Applied Physics Laboratory for NASA. STEREO, currently scheduled for launch in late 2005, will provide 3-D stereoscopic images for scientists to study the nature of coronal mass ejections, a major source of magnetic disruptions on Earth and a key component of space weather.

At the conclusion of the meeting, Ms. Karrie Sandagger of the Naval Surface Warfare Center at Indian Head, Maryland assumed the chairmanship of PEDCS, succeeding Mr. Daniel Schwartz of the Air Force Research Laboratory who completed a successful three-year term leading the subcommittee.

The combined unclassified proceedings of the PEDCS/S&EPS meeting will be published on CD-ROM in September. For ordering information, contact CPIA Customer Service at 410-992-7304 ext. 211 or 202.

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