

JANNAF Community Meets in Denver for 54th JPM, 5th MSS, 3rd LPS and 2nd SPS

Following in the footsteps of previous JPM meetings held in Las Vegas (2004) and Monterey (2005), the 54th JPM/ 5th MSS/ 3rd LPS/ 2nd SPS Joint Technical meeting was another overwhelming success, with record breaking attendance of over 600 propulsion industry representatives. James L. Cannon of the NASA Marshall Space Flight Center in Huntsville, Alabama, chaired the joint program of over 350 technical papers and presentations, during the week of May 14-17 at the Marriott Denver City Center located in Denver, Colorado.

Strong showings from the MSS (11 sessions), LPS (19 sessions) and SPS (17 sessions) contributed to another successful JPM (24 sessions), which in turn saw significant growth in new technical areas, including Sensors for Propulsion, Hybrid Launch Vehicles and Test Facilities.

Technical Highlights



Meeting Chair Mr. James L Cannon and Keynote Speaker Mr. John Karas

John Karas, Vice President of Human Spaceflight for Lockheed Martin Space Systems Company presented the meeting Keynote on Tuesday May 15. A packed house was captivated by Mr. Karas' unique perspective on the history of the industry, and the enthusiastic (and often infectious) vision he shared for the future. In particular, he provided wise words to our future engineers, as well as to those who will need to mentor and support them.

In other special engagements, Bob Geisler of Geisler Enterprises provided the centerpiece of the MSS technical program, with his discussion on the history of Solid Rocket Motor Aging and Surveillance Modeling; and Tom Rudman of Lockheed Martin gave a multi-media retrospective on America's workhorse launch vehicle – the Titan.

The technical sessions of the meeting were complemented with a number of specialist sessions, working groups and workshops, including the following:

- Liquid Rocket Engine Testing Guideline Workshop
- Integrated Propulsion Analysis Tools Workshop
- Liquid Rocket Engine Combustion Stability Workshop
- Health Management Sensors Workshop
- Spacecraft Propulsion Capabilities and Applications Specialist Session
- Simulation Credibility Challenges Specialist Session
- Hall Thruster Modeling and Simulation Working Group
- Tethers Working Group
- Aerocapture Technical Assessment Group (TAG)
- Advanced Chemical Propulsion TAG
- Electric Propulsion TAG

Awards Highlights

In another true testament to the vibrancy of JANNAF and continued achievements in the field, a number of awards were presented at a special ceremony during the meeting.

Distinguished recognition awards were conferred on Dr. Clark Hawk, University of Alabama, and Doug Blackwell, NASA MSFC, for lengthy careers of achievement and contribution to the field of liquid rocket propulsion; and to R. Scott Hyde, ATK, and Dr. Eric Paulson, AFRL/Edwards, for outstanding contribution to the MSS subcommittee.

Special awards for Outstanding Team Achievements were presented to the several multi-organizational teams including: *IHRPT ALCAN* project, *Data-Driven Algorithms for Space Shuttle Main Engine Fault Detection*, and the *First of a Kind US-built Hall Thruster System for the TacSat-2 Spacecraft*.

Continuing a tradition instituted at the Monterey 2005 JANNAF meeting, student achievements and participation were highlighted during the awards ceremony. The LPS recognized the achievements of the University of Colorado MaCH-SR1 Team, led by Lauren Kanner. The SPS recognized spacecraft thruster development work in two different areas: Electrothermal Thrusters by Daniel Clemens, Pennsylvania State University; and Hall Thrusters by Bryan Reid, University of Michigan. Many of the student participants enjoyed the opportunity to share lunch with JANNAF chairs and leaders in the industry, so don't be surprised if you see them gainfully employed and presenting new achievements in future JANNAF meetings.

Meeting Proceedings

Meeting proceedings for the JPM, the combined MSS/LPS/SPS Technical Meeting, and the Health Management Sensors Workshop will each be published separately and will be available soon. Contact the CPIAC main office at (410) 992-7300 for more information, or to order any of the proceedings.

6th Modeling and Simulation, 4th Liquid Propulsion, 3rd Spacecraft Propulsion Joint Meeting

The next joint MSS/LPS/SPS meeting is tentatively scheduled for December of 2008. To meet the needs of the other subcommittees and the JANNAF community as a whole, the JPM portion of the meeting is in the process of moving to a twelve-month cycle, away from the standard subcommittee cycle (18 months.) Look for the JPM to meet with other technical subcommittees in the spring of 2008. More information on this meeting will be provided in the JANNAF Calendar in the coming months.

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