

***29<sup>th</sup> Exhaust Plume Technology Subcommittee & 11<sup>th</sup> SPIRITS User Group  
Joint Meeting Held in Littleton, Colorado***

The 29<sup>th</sup> Exhaust Plume Technology Subcommittee (EPTS) and 11<sup>th</sup> Spectral and In-Band Radiometric Imaging of Targets and Scenes (SPIRITS) User Group Joint Meeting was held June 19-23, 2006 at the Lockheed Martin Deer Creek Facility, Littleton, Colorado. Nearly 100 engineers, scientists, program managers, and other specialists were in attendance, with 56 technical papers presented. Throughout the week, there were 8 technical sessions on the exhaust phenomena from aircraft, rockets, ramjets, space, and gun propulsion systems. Technical session topics included: plume flowfield, plume radiation, plume effects, plume interactions, vehicle design effects, and spacecraft contamination. Mr. Mark D'Agostino of NASA Marshall Space Flight Center served as the EPTS meeting chair and Ms. Robin Miller of Naval Air Warfare Center Weapons Division, Point Mugu served as the SPIRITS meeting chair.

Papers were presented on a range of topics including: signature modeling, measurements of engine plumes, hot parts temperature modeling, helicopter modeling, aircraft landing lights, plume model validation, flowfield simulations, cold-flow plume entrainment, silo fly-out simulations, model – data comparisons, missile staging simulations, axi-symmetric wake flow, plume signature modulations, afterburning events, plume radiation transfer, plume signature prediction studies, data analysis and code development. Papers on the next generation of plume code development and applications were also presented in an EPTS Specialist Session.

Of note for this meeting, was the presentation of a Lifetime Achievement Award to Mr. Harold Pergament of Propulsion Science & Technology Incorporated. The award was given for 37 years of service to the JANNAF Propulsion Community and was presented to Mr. Pergament by Dr. Billy Walker of RDECOM, Redstone Arsenal.

Overall, this year's EPTS meeting in Littleton was a huge success. Meeting attendees agreed that the Deer Creek facility was one of the best meeting locations in recent memory. With the successful conclusion of the meeting, Dr. Kevin Kennedy of RDECOM, Redstone Arsenal, will replace Mr. Mark D'Agostino as the EPTS Subcommittee Chairman. The 30<sup>th</sup> EPTS and 12<sup>th</sup> SPIRITS Users Group joint meeting is tentatively scheduled for November 2007.

The CD-ROM unclassified proceedings of the 29<sup>th</sup> EPTS and 11<sup>th</sup> SPIRITS meeting will be available by the end of July. The classified paper proceedings will be available in August. For ordering information, please contact Ms. Jeanette Inzar at CPIAC at 410-992-7305, ext. 212.

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