

28th Exhaust Plume Technology Subcommittee and 10th SPIRITS User Group Joint Meeting Review, San Diego, California

The 28th Exhaust Plume Technology Subcommittee (EPTS) and 10th Spectral and In-Band Radiometric Imaging of Targets and Scenes (SPIRITS) Users Group Joint Meeting was held 1-5 November 2004 at the Sheraton Suites San Diego and the Fleet Intelligence Training Center in San Diego, CA. Nearly 100 engineers, scientists, program managers, and other specialists were in attendance, with 55 technical papers presented. Throughout the week, there were eight 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.

Presentations were given on reflection calculations, aircraft plumes, aircraft landing lights, infrared signature measurements, early launch detection, multispectral signatures, interpretation of flight signature data, plume spatial and spectral emission analysis, combustor testing, radar signatures, missile plume flow and radiation, velocity and angle of attack effects on plumes, high temperature Al₂O₃ optical properties, plume flowfields, base heating analysis, mach disk radiation, overexpanded plumes, and hard body IR signature analysis. Additional papers reporting on existing capabilities of JANNAF standard plume codes and the status of planned upgrades were also presented.

Overall, this year's EPTS meeting in San Diego was a huge success. "Great presentations, very well organized, and a good range of topics and talks with great attendance" was the comment of one attendee. With the successful conclusion of the meeting, Ms. Caitlin Eubank will replace Mr. Peter Zeender as the CPIA technical representative for EPTS. The 29th EPTS and 11th SPIRITS Users Group Joint Meeting is tentatively scheduled for May 2006 in Colorado.

The CD-ROM unclassified proceedings of the 28th EPTS and 10th SPIRITS meeting as well as the paper classified proceedings will be available in January 2005. For ordering information, please contact Dottie Becker or Mary Gannaway at CPIA at 410-992-7302, ext. 204 or 211, respectively.

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