AIAA Rocky Mountain Section Speakers Program

Green Propellant Infusion Mission

Chris McLean: GPIM Principal Investigator
William Deininger: GPIM Chief Engineer
Ball Aerospace & Technologies Corp.

6:00 pm Thursday, November 21, 2013
Ball Aerospace Boulder Campus RA7 Conference Room
1600 Commerce St, Boulder, CO 80301

This month's program will present an overview of Ball Aerospace's contribution to the future of spacecraft propulsion. The NASA Green Propellant Infusion Mission (GPIM) seeks to demonstrate and test the capabilities of a high-performance, non-toxic, "green" fuel on orbit. The fuel, Hydroxyl Ammonium Nitrate (HAN) fuel/oxidizer blend promises longer mission durations, additional maneuverability, increased payload volume, and simplified launch processing. The Ball team will develop and fly the GPIM to demonstrate the new fuel and an integrated propulsion system that uses green propellant in space. Once on-orbit, the team will characterize the green fuel's performance. The GPIM payload will fly aboard the Ball Configurable Platform (BCP) 100 spacecraft bus and will be launched in 2015 Ball Aerospace is the prime contractor for GPIM. Chris McLean, principal investigator from Ball Aerospace will lead the demonstration of the alternative fuel for future space vehicles. GPIM team co-investigators include the Aerojet Corporation, NASA Glenn Research Center, and the U.S. AFRL at Edwards Air Force Base, with additional mission support from the U.S. Air Force Space and Missile Systems Center at Kirkland Air Force Base and NASA's Kennedy Space Center.

Chris Mclean is the GPIM Principal Investigator. Chris has been the Program Manager and PI for numerous NASA/Industry studies in Exploration advanced propulsion and programs at BATC including Lead Systems Engineer for the BATC RLEP Lunar Lander. Chris received his Masters of Science in Aerospace Engineering in 1991 from the University of Washington.
William Deininger is the GPIM Chief Engineer and a Staff Consultant at BATC. William was the Spacecraft Program Manager for the Kepler spacecraft and has fields of specialization in systems engineering and electric propulsion. He was a member of the technical staff at the Jet Propulsion Laboratory and received his PhD, Aerospace Engineering in 1995from the Università di Pisa in Pisa Italy.

US citizenship required.
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Register Here via the Rocky Mountain AIAA website aiaa-rm.org

For questions you can still call or email: 303-939-4636 czeller@ball.com

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