



Contribution ID: 338

Type: **Invited Oral**

C4Or1B-05: [Invited] NASA Cryogenic Fluid Management Portfolio Project's Demonstrations Portfolio overview

Thursday 22 May 2025 10:30 (15 minutes)

The NASA Cryogenic Fluid Management Portfolio Project's (CFMPP) Demonstrations Portfolio designs, builds, and tests integrated flight and ground systems comprised of multiple CFM subsystems, enabling TRL 5 - 7 maturation for technologies for in-space applications both through activities performed by NASA and partnerships with industry. These partnerships are through Tipping Point contracts, a NASA Science and Technology Mission Directorate investment in advancement of on-orbit cryogenic fluid management technologies with the primary objective of reducing development costs and schedules for infusion into long duration missions utilizing cryogenic propellant. This portion of the NASA cryogenic propellant / fuel panel provides a summary of the CFMPP Demonstrations Portfolio top-level goals, objectives, and status.

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Session Classification: C4Or1B - [Special Session] NASA's Cryogenic Fluids for Aerospace Propulsion Applications