High Rate Aerostructures Fabrication Meeting Summary

[Brian Rice] August 14, 2024



High Rate Aerostructures Fabrication Working Group Agenda

Co-Chairs: Brian Rice, Tim Gaur, Kevin Retz

Craig Neslen, Air Force, "Low-Cost Agile Manufactured Structures"

John Geriguis, Joby, "Joby – Emerging Needs for Composites Manufacturing"

Tim Gaur, Airbus, "Composite Enablers for Future Aircraft"

Eric Lange, UDRI, "Techno-Economic Model for High Rate Aerostructures Applied to Airborne Wind Energy Systems"

We are always looking for active WG members! Contact: brian.rice@udri.udayton.edu

High Rate Aerostructures Application Areas



Build rates of 1000+/year Leverage common materials Leverage supply chain Requires light-weight/low-cost

Collaborative Combat Aircraft



Advanced Air Mobility







Airbus' ambition is to bring to market the world's first hydrogen-powered commercial aircraft by 2035.



Tradespace Analysis of Airborne Wind Energy Systems





Capability: Advanced/Agile Manufacturing



LFI Technology – Long Fiber Injection Krauss Maffei technology









RapidClave® Processing





New RapidClave[®] with enhanced thermal control, energy saving features, and 5' x 10' size to be installed at UDRI winter 2024. Sponsored by Air Force under TARMACS program. Equipment available for industrial projects.







Through Thickness Temperature Control

Robotic Head