

HSAT – Program 2024

Wednesday, November 13th, 2024

17:00-19:00 HSAT Workshop Welcome Mixer,
Blakemore Planetarium, 1800 W. Indiana Avenue

Day 1 - Thursday, November 14th, 2024

8.15 Light breakfast/coffee and registration



8:45-8:55 Workshop commencement and house rules

Mr. Robbie Cowart, Chairman SAE Supersonic and Hypersonic Aircraft Steering Group, Founder & CEO, RAC Consulting, LLC



8:55-9:00 Welcome to HSAT-Permian Basin Economic Diversification into Aerospace Academic Views
Dr. Sandra Woodley, President, University of Texas at the Permian Basin (UTPB)



9:00-9:20 Workshop Chairman's opening remarks
Mr. Oscar S. Garcia, Chairman & CEO, InterFlight Global Corporation (IFG) and High Speed Flight/Fast Forward Project



9:20-9:45 Co-Chairman Welcome Remarks:
Dr. George Nield, HSAT Co-Chair and Chairman, Global Spaceport Alliance (GSA)



9:45-10:10 Workshop Co-Leader Opening remarks
Dr. Russell Boyce, AIAA Aerospace and Hypersonics Domain Leader



Mr. Oscar S. Garcia, Chairman & CEO, InterFlight Global Corporation (IFG) and High Speed Flight/Fast Forward Project



10:10-10:30 Industry State-of-the-Art High Speed/Ultra Long-Range Aircraft

10:30-11:00 Supersonic Programs Technologies an Environmental-Sustainability Focus
Ms. Lori Ozoroski, Commercial Supersonic Technology Project Manager, NASA



11:00-11:20 Supersonic Business Jets- Spike S-512 Diplomat Program Updates
Mr. Vik Kachoria, President & CEO, Spike Aerospace



11:20-11:40 Supersonic Business Jets-Propulsion Systems Updates
Mr. Quinn Kelly, Staff Scientist Propulsion, Boom Supersonic



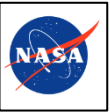
11:45-13:15 Lunch - UTPB CEED Building
Mr. Lance Robertson, Director, Diamondback Energy and former CEO, Endeavor Energy Resources, L.P.



13:15-13:45 Supersonic and Hypersonic Aircraft Steering committee
Mr. Robbie Cowart, Chairman SAE Supersonic Aircraft Steering Group (SASG)



13:45-14:45 Hypersonics-High speed Strategy and Commercial Technologies
Ms. Mary Jo Long-Davis, Project Manager Hypersonic Technology Project (HTP), NASA



14:45-15:15 Hypersonic Vehicles State of the Art Technology
Dr. Kevin Bowcutt, Senior Technical Fellow & Chief Scientist of Hypersonics, Boeing Research & Technology



15:15-15:45 Nuclear Power for Hypersonic Vehicles
Dr. Ryan Weed, Co-Founder and CEO, AeroFuse



15:45-16:10 Liquid Natural Gas for Hypersonics
Mr. Jess Sponable, President and CTO, New Frontier Aerospace, Inc.



16:10-16:30 Hypersonic Hybrid TBCC Propulsion
Dr. Richard Lugg, Founder and CEO, Hyper Space Propulsion, Inc



16:30-16:45 Hypersonic Vehicles and Technology-Defense Innovation Unit – Point to Point transportation derivatives and perspectives
Mr. Dennis Poulos, Space Portfolio Defense Innovation Unit (DIU). U.S. Department of Defense



16:45-17:00 Dual use technologies-space Point to Point transportation
Colonel (ret) Bill "Hippie" Woolf, CEO, Space Force Association



17:00-17:15 Sub-Orbital Point to Point Transportation
Mr. Sam Ximenes, President & CEO, Exploration Architecture Corporation (XARC)



Mr. George Sondecker, Mission Manager, SpaceX (Invited) & Mr. Ryan Parino, Mission Integration, SpaceX (invited)



**Mr. David Watson, Lead Systems Engineer,
Radian Aerospace**



**Dr. Melchor J. Antuñano, M.D., M.S., FAsMA,
FAshFA, Aerospace Medicine Specialist
Director, FAA Civil Aerospace Medical Institute**



17:15-17:50 Modernizing Airspace for High-Speed
Flight

**Mr. John Belanger, Principal Aviation Systems
Engineer & Mr. Ryan Bechtel, Lead Aviation
Systems Engineer, MITRE Corporation**



9:00-9:30 Research, medical, and human factors
gaps in aerospace medicine

**Dr. Emmanuel Urquieta, M.D., M.S., FAsMA, Vice
Chair of Aerospace Medicine University of Central
Florida College of Medicine**



17:50—18:10 Sub Orbital Point to Point (P2P)
Airspace Perspectives

**Dr. George Nield, HSAT Co-Chair and Chairman,
Global Spaceport Alliance (GSA)**



9:30-10:15 High Speed Task Force and Industry
Collaboration- AIAA Reports and Future Vistas

**Mr. Todd Magee, Principal Aerodynamics
Engineer, Boeing Research & Technology, AIAA
High Speed Task Force, Co-Chair**



**Mr. Bill Lash, Airspace Integration Engineer,
Airspace Innovations, LLC**



10:15-10:40 High Speed and Altitude Flight-
Weather and Environmental Considerations-
Research and Science

**Dr. Scott McIntosh, Vice President Space
Operations, Lynker Space**



18:10-18:15 Workshop Inputs, Deliverables and Action
Plans 2023 -Group Work

**Mr. Oscar S. Garcia, Chairman & CEO, InterFlight
Global Corporation (IFG) and High Speed
Flight/Fast Forward Project**



10:40 -11:10 Venus Aerospace Detonation Ramjet

**Dr. Andrew Duggleby, Co-Founder and Chief
Technology Officer (CTO), Venus Aerospace**



**18:30-20:30 Cocktail – followed by Dinner Reception,
Wagner Noël Performing Arts Center, Rea-Greathouse
Recital Hall**

19:15-20:00 Keynote Addresses:

Ms. Lori Blong, Midland Mayor



11:10-11:50 Aerospace High Speed Vehicles
Conceptual Design-State of the Art and Standards

**Dr. Bernd Chudoba, Associate Professor
Mechanical & Aerospace Engineering, University
of Texas at Arlington & Director, Aerospace
Vehicle Design**



**Dr. Russell Boyce, Aerospace and Hypersonics
Domain Leader, AIAA**



11:50-12:20 High Speed Aerospace Vehicles
Certification and Compliance- Strategies and
Regulatory Interfaces

**Mr. Robert Honzik, President and DER, The Drake
Group**



Day 2 - Friday, November 15th, 2024

7:45-8:00 Registration and Light Breakfast/Coffee

8:00-8:10 Opening Remarks

**Mr. P. Lourcey Sams, Chairman, Board of
Directors, Midland Development Corporation**



**Mr. Oscar S. Garcia, Chairman & CEO, InterFlight
Global Corporation (IFG) and High Speed
Flight/Fast Forward Project**

**Dr. George Nield, HSAT Co-Chair and Chairman,
Global Spaceport Alliance (GSA)**



8:10-8:20

**Ms. Justine Ruff, Director, Midland Air and
Spaceport**



**Dr. Russell Boyce, Aerospace and Hypersonics
Domain Leader, AIAA**



8:20-8:25

**Dr. Kendall Harris, Interim Dean, UTPB College of
Engineering**



12:20-12:45 Group Work

12:45-14:00 Boxed Lunch



8:25-9:00 High Altitude and Speed Aerospace
Medicine, Human Factors, Risk Assessments and
Research

