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

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

17:50—18:10 Sub Orbital Point to Point (P2P) Airspace Perspectives
Dr. George Nield, HSAT Co-Chair and Chairman, Global Spaceport Alliance (GSA)

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

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

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

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

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

8:10-8:20
Ms. Justine Ruff, Director, Midland Air and Spaceport

8:20-8:25
Dr. Kendall Harris, Interim Dean, UTPB College of Engineering

8:25-9:00 High Altitude and Speed Aerospace Medicine, Human Factors, Risk Assessments and Research
Dr. Melchor J. Antuñano, M.D., M.S., FAsMA, FAsHFA, Aerospace Medicine Specialist Director, FAA Civil Aerospace Medical Institute

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

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

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

10:40 -11:10 Venus Aerospace Detonation Ramjet
Dr. Andrew Duggleby, Co-Founder and Chief Technology Officer (CTO), Venus Aerospace

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

11:50-12:20 High Speed Aerospace Vehicles Certification and Compliance- Strategies and Regulatory Interfaces
Mr. Robert Honzik, President and DER, The Drake Group

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)

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

12:20-12:45 **Group Work**

12:45-14:00 Boxed Lunch