## Hypersonic-Vehicle Flght Prediction Workshop June 20-22, 2017

## Final Agenda

	Start	End			
Session	Time	Time	Speaker	Org	Presentation Title / Topic
Day 1 - Tuesday					
1st Bus Pickup at Hotel	7:00?				Coffee at meeting site
	8:00		Tom Jackson	USAF/AFRL	Invited - Keynote for Air-breathing Vehicles
Classified Presentations	8:30		Gary Polansky	Sandia NL	Invited - Keynote for Boost-glide Vehicles
	9:00		Oscar Murillo	NASA/AFRC	NASA Armstrong involvement with HTV-2
2nd Bus Pickup at 9:00	9:30	10:00			Break - Switch to unclassified presentations
	10:00		Rick Gaffney	NASA/LaRC	Welcome/announcements/Purpose,Scope,Expectations, etc
	10:30		Joseph Olejniczak	NASA/ARC	Orion Exploration Flight 1 Test
	11:00		Brandon Oliver	NASA/JSC	Challenges and progress towards reconstruction of EFT-1 heatshield aerothermal environments
	11:30		Rob Maddock	NASA/LaRC	EDL Flight Mechanics Predictions
Unclassified	12:00 1:00	1:00	Van Dank	NASA/LaRC	Lunch (Catered on site - Boxed Lunch, select on registration web page )  Hyper-X Program (X-43)
Presentations	1:30		Ken Rock Nick Altobelli	Lockheed Martin	71 0 1 7
	2:00		Rich Perlman	Orbital ATK	Hypersonic Flight Test Campaign Manifest Planning Observations and Recommendations  Ground test capabilities and usage, and impact to program uncertainties and risks
	2:30	3:00	NICH FEHILIAN	Olbital ATK	Break
	3:00		Matthew Thomas	CFDRC	Quantifying Hypersonic-Vehicle Flight Behavior Uncertainty Using Ground Test Results
	3:30		Wade Burfitt	OSD/HSST	Flight prediction and uncertainty quantification from a procurement perspective
				030/11331	
Breakout Session 1	4:00	5:00	Moderator - Several		Smaller Group Discussions - Address questions/goals of the workshop
Bus Return to Hotels	5:00				
Optional Group Dinner	6:30				The Warehouse Restaurant
at local restaurant	0.30				The wateriouse restaurant
Day 2 - Wednesday					
Bus Pickup at Hotel	7:30				Coffee at meeting site
	8:00		Anton VanderWyst	Northrop Grumman	Trajectory Optimization
	8:30		Andy Imbrie	Lockheed Martin	Challenges to Implementation of Parameter Identification Maneuvers
	9:00		Chris Karlgaard	AMA .	Hypersonic Aerodynamic Prediction for Entry, Descent and Landing
	9:30		Brian Hollis	NASA/LaRC	Aerothermodynamic Modeling Challenges for EDL
	10:00	10:30	s = = 1	110.45/4.501	Break
	10:30 11:00		Dean Eklund Andrea Storch	USAF/AFRL NASA/LaRC	SED-WR Program (X-51)
Unclassified	11:00		Clif Mortensen	Lawrence Livermore	HIFIRE Flight 2 Challenges in taking data for Hypersonic BL transition and applying to flight
Presentations	12:00	1:00	Cili Mortensen	Lawrence Livermore	Lunch (Catered on site - Buffet)
	1:00		Graham Candler	U. of Minnesota	Next-Generation CFD for Hypersonic Vehicle Aerothermodynammics
	1:30		Eric Blades	ATA Engineering	Multiphysics CFD/CSM simulations  Multiphysics CFD/CSM simulations
	2:00		Thomas Eason	USAF/AFRL	Assessing Structural Margins for Hypersonic Hot Structures Using Ground Test Facilities
	2:30	3:00	momus cuson	00/11//11/12	Break
	3:00		Chris Schulz	Lockheed Martin	When Things Go Wrong - Approaches to Hypersonic Post Flight Anomaly Investigations to Identify and Resolve Deficiencies in Ground Based Modeling
	3:30		Milad Mahzari	NASA/ARC	Mars Entry, Decent and Landing Instrument and data
Breakout Session 2	4:00	5:00	Moderator - Several		Smaller Group Discussions - Address questions/goals of the workshop
	4.00	5.00	iviouciatoi - Jeveldi		Jamen Group Discussions Address questions/goals of the Workshop
Bus Return to Hotels					
Day 3 - Thursday	7.05				la g
Bus Pickup at Hotel	7:30	0.20	John Bradford	Canana Marilia	Coffee
Unclassified	8:00 8:30		Robert Bakos	SpaceWorks	Inlet Operability Modeling for Air-Breathing Propulsion Systems to Improve Performance Prediction
Presentations	9:00		Mary Bedrick	Innoveering USAF/AFLCMC	Ground and Flight Test Needs for Active Hypersonic Engine Control Development
riesentations	9:30		Andrew Crow	Lockheed Martin	Past, Current and Future Meteorological Support for Hypersonic Vehicle Technologies  Capabilities and Gaps of Flight Prediction Tools for Radiative Signature Analysis
	10:00	10:00	Allulew Clow	LOCKHEEU WAI UII	Break
Mran un activities			M4		
Wrap-up activities (Times can shift based	10:30		Morrison & Washburn		Summary of previous and current workshop
	10:45		Breakout Teams (20 mir	n each)	Final discussion with whole group - things missed, other thoughts
on how things go)	11:45		Rick Gaffney		Feedback on workshop
	12:00	1:00			Lunch (Catered on site - Boxed Lunches, select on registration web page)
	1:00	3:30			Tours
	1:00 3:30				Bus pick-up for attendees not interested in tour - to be taken back to hotels
	3:30				Bus pick-up for attendees - to be taken back to hotels