

JANNAF CS / APS / EPSS / ESHS / PIB

4 – 8 DECEMBER 2023

SCHEDULE AT A GLANCE

Please note that the agendas of 26 technical sessions begin with at least one presentation that is restricted at either distribution statement B (U.S. Government only), D (DoD and DoD Contractors only), or E (DoD Components only). Of these sessions, three are entirely restricted at the distribution statement D level; one at distribution statement B. Sessions with at least one restricted presentation are indicated in the Schedule at a Glance below and through page 22 with “Open *”. The three distribution statement D sessions are denoted with “Distro **D**” in the Schedule at a Glance; the distribution statement B session is indicated with “Distro **B-S**”. Please review the detailed session agendas on pages 23 - 62 in the Preliminary Program for additional information about the restricted talks and who is eligible to attend them.

A Schedule Color Key has been provided on pages 2, 3, and 5.

SCHEDULE - Sunday, 3 December

5:00 p.m. - 7:00 p.m.	On-Site Check-In and Registration Desk Open	2nd Floor Foyer
6:00 p.m. - 7:00 p.m.	Early Career Working Group Meeting	Seminar Theater

SCHEDULE - Monday, 4 December

7:00 a.m. - 5:00 p.m.	On-Site Check-In and Registration Desk Open		2nd Floor Foyer	
7:00 a.m. - 5:00 p.m.	I.T. Office Open (for Presenters and Session Chairs needing technical assistance)		Topaz	Open
7:00 a.m. - 8:00 a.m.	Networking Area Refreshments		Grand Ballroom C	Open
7:15 a.m. - 7:30 a.m.	Session Chair Meeting (Monday Sessions)		Seminar Theater	Closed
8:00 a.m. - 12:05 p.m.	Monday Morning Technical Sessions and Panel Meeting			
8:00 a.m. - 9:35 a.m.	IA Part 1	APS	Design Trades for High Speed Vehicles and Components	Grand Ballroom A Open
10:00 a.m. - 11:35 a.m.	IA Part 2	APS	High Speed System Component Analysis	Grand Ballroom A Open *
8:30 a.m. - 11:05 a.m.	IB	APS	Inlet Technology and Design	Grand Ballroom B Open
8:00 a.m. - 10:05 a.m.	IC	APS	Material Analysis for ACC-6 and Related Composites	Alpine East Open
8:00 a.m. - 11:35 a.m.	ID	APS	Operability of Rotating Detonation and Diesel Engines	Alpine West Open
8:00 a.m. - 11:05 a.m.	IE	CS	Experimental Studies in Dual-Mode Ramjet Environments	Canyon A Open
8:00 a.m. - 12:05 p.m.	IF	APS	Scramjet Fuels - I	Canyon B Open
8:00 a.m. - 11:35 a.m.	IG	EPSS	Plume / Wake / Hypersonic Flowfield Measurements	Canyon C Open
8:00 a.m. - 11:05 a.m.	IH	ESHS	Insensitive Munitions	Seminar Theater Open *
11:05 a.m. - 11:35 a.m.	IH	ESHS	PANEL MEETING: Insensitive Munitions	Seminar Theater Open
9:00 a.m. - 4:30 p.m.	On-Site Reading Room (also available 24/7 virtually with your own device)		Topaz	Open
9:35 a.m. - 10:35 a.m.	Networking Area Refreshments		Grand Ballroom C	Open
12:00 p.m. - 1:30 p.m.	Lunch Break - On Your Own			
1:30 p.m. - 6:05 p.m.	Monday Afternoon Technical Sessions and Panel Meetings			
2:00 p.m. - 5:05 p.m.	IP	APS	Ramjet Design	Grand Ballroom A Open
1:30 p.m. - 5:05 p.m.	IQ	APS	HIFIRE Flight 2-C - I	Grand Ballroom B Open
1:30 p.m. - 5:05 p.m.	IR	APS/CS	Additive Manufacturing: Characterization and Application	Alpine East Open
1:30 p.m. - 4:35 p.m.	IS	APS	Rotating Detonation Engine Inflow Considerations	Alpine West Open
1:30 p.m. - 5:05 p.m.	IT	CS	Combustion Diagnostic Methods and Applications	Canyon A Open *
1:30 p.m. - 5:35 p.m.	IU	CS	Advanced Diagnostics for Energetic Materials	Canyon B Open *
5:35 p.m. - 6:05 p.m.	IU	CS	PANEL MEETING: Diagnostics	Canyon B Open
1:30 p.m. - 5:35 p.m.	IV	EPSS	Plume / Wake / Hypersonic Flowfield Modeling	Canyon C Open
2:00 p.m. - 4:35 p.m.	IW	ESHS	Thermal Decomposition and Cookoff	Seminar Theater Open
4:35 p.m. - 5:05 p.m.	IW	ESHS	PANEL MEETING: Cookoff	Seminar Theater Open
3:05 p.m. - 4:05 p.m.	Networking Area Refreshments		Grand Ballroom C	Open

SCHEDULE - Tuesday, 5 December

7:00 a.m. - 5:00 p.m.	On-Site Check-In and Registration Desk Open			2nd Floor Foyer	
7:00 a.m. - 5:00 p.m.	I.T. Office Open (for Presenters and Session Chairs needing technical assistance)			Topaz	Open
7:00 a.m. - 8:00 a.m.	Networking Area Refreshments			Grand Ballroom C	Open
7:15 a.m. - 7:30 a.m.	Session Chair Meeting (all Tuesday sessions and Wednesday classified sessions)			Seminar Theater	Closed
8:00 a.m. - 10:00 a.m.	KEYNOTE ADDRESS: Mr. Dale W. Sisson, Jr. - NSWCDD, Dahlgren, VA Awards and Announcements			Grand Ballroom A&B + satellite	Open
9:00 a.m. - 4:30 p.m.	On-Site Reading Room (also available 24/7 virtually with your own device)			Topaz	Open
9:30 a.m. - 10:00 a.m.	Networking Area Refreshments			Grand Ballroom C	Open
9:30 a.m. - 12:00 p.m.	PIB LLPWG Reusability Panel Meeting			Salon 1	Closed
10:00 a.m. - 5:00 p.m.	JANNAF Technical Executive Committee Meeting			Salon 2	Closed
10:00 a.m. - 12:35 p.m.	Tuesday Morning Technical Sessions, Specialist Session, and Panel Meeting				
10:00 a.m. - 11:35 a.m.	2A	APS	Rotating Detonation Engine Geometry	Grand Ballroom A	Open
10:00 a.m. - 12:35 p.m.	2B	APS	HIFIRE Flight 2-C - II	Grand Ballroom B	Open
10:00 a.m. - 11:05 a.m.	2C	APS	Turboramjets	Alpine East	Open
10:00 a.m. - 11:05 a.m.	2D	CS	Novel Solid Propellant Technologies	Alpine West	Open
10:00 a.m. - 12:05 p.m.	2E	CS	SPECIALIST SESSION: The Role of Metadata Approaches in the Advancement of Combustion Applications - I	Canyon A	Open
10:30 a.m. - 12:35 p.m.	2F	CS	Small-Scale Detonation Performance	Canyon B	Open *
10:00 a.m. - 12:05 p.m.	2G	EPSS	Plume / Wake / Hypersonic Topics	Canyon C	Open
10:00 a.m. - 12:05 p.m.	2H	ESHS	Energetic Defect Characterization (EDC): Defect Detection, Experimental Evaluations	Seminar Theater	Open *
12:05 p.m. - 12:35 p.m.	2H	ESHS	PANEL MEETING: Energetic Defect Characterization (EDC): Defect Detection, Experimental Evaluations	Seminar Theater	Open
12:00 p.m. - 1:30 p.m.	Lunch Break - On Your Own				
1:00 p.m. - 4:00 p.m.	PIB Commodities Working Group Meeting			Salon 1	Closed
1:30 p.m. - 7:30 p.m.	Tuesday Afternoon/Evening Technical Sessions, Specialist Sessions, Poster Session, Town Hall and Panel Meetings				
2:00 p.m. - 4:35 p.m.	2P	APS	Ramjet Fuels	Grand Ballroom A	Open
1:30 p.m. - 5:35 p.m.	2Q	APS	Experimental and Diagnostic Techniques - I	Grand Ballroom B	Open
1:30 p.m. - 5:55 p.m.	2R	APS	SPECIALIST SESSION: University Consortium of Applied Hypersonics (UCAH) Student Research Presentations	Alpine East	Open
1:30 p.m. - 5:05 p.m.	2S	CS	Non-Ideal Explosive Performance	Alpine West	Distro D
1:30 p.m. - 5:45 p.m.	2T	CS	SPECIALIST SESSION: The Role of Metadata Approaches in the Advancement of Combustion Applications - II	Canyon A	Open *
1:30 p.m. - 2:35 p.m.	2U	CS	Ignition and Combustion in Solid Propellant Guns	Canyon B	Open
2:35 p.m. - 3:35 p.m.	2U	CS	TOWN HALL MEETING: Guns	Canyon B	Open
1:30 p.m. - 5:45 p.m.	2V	EPSS	SPECIALIST SESSION: EPSS Tutorial: Hypersonic Grid Generation	Canyon C	Open
1:30 p.m. - 5:50 p.m.	2W	ESHS	Energetic Defect Characterization (EDC): Computational Analysis of Defects	Seminar Theater	Open *
5:50 p.m. - 6:20 p.m.	2W	ESHS	PANEL MEETING: Energetic Defect Characterization (EDC) - Computational Analysis of Defects	Seminar Theater	Open
6:00 p.m. - 7:30 p.m.	2Z	EPSS	EPSS Poster Session (includes light refreshments)	Grand Ballroom Foyer	Open
3:05 p.m. - 4:05 p.m.	Networking Area Refreshments			Grand Ballroom C	Open
4:35 p.m. - 6:05 p.m.	APS Inflow Profile Effects Working Group Meeting			Salon 3	Open
6:30 p.m. - 8:00 p.m.	APS Technical Steering Group Meeting			Salon 2	Closed

Schedule Color Key

Meeting Services	Concurrent Sessions or Panel Meetings
Networking Opportunities	Session Details
Closed Meetings	Panel Meetings

"Distro **D**" and "Open *****" indicate a session with at least one presentation restricted at B, D, or E

SCHEDULE - Wednesday, 6 December

7:00 a.m. - 5:00 p.m.	On-Site Check-In and Registration Desk Open			2nd Floor Foyer	
7:00 a.m. - 5:00 p.m.	I.T. Office Open (for Presenters and Session Chairs needing technical assistance)			Topaz	Open
7:00 a.m. - 8:00 a.m.	Networking Area Refreshments			Grand Ballroom C	Open
7:15 a.m. - 7:30 a.m.	Session Chair Meeting (Wednesday sessions and Thursday classified sessions)			Seminar Theater	Closed
9:00 a.m. - 4:30 p.m.	On-Site Reading Room (also available 24/7 virtually with your own device)			Topaz	Open
8:00 a.m. - 12:05 p.m.	Wednesday Morning Technical Sessions, Workshops, Specialist Session, Town Hall and Panel Meetings				
8:00 a.m. - 11:25 a.m.	3A	APS	WORKSHOP: Isolator-Control Algorithms for Shock Location and/or Overall Pressure Ratio Management	Grand Ballroom A	Open
8:00 a.m. - 11:05 a.m.	3B	APS	Experimental and Diagnostic Techniques - II	Grand Ballroom B	Open *
11:05 a.m. - 11:50 a.m.	3B	APS	PANEL MEETING: Engine Testing and Validation	Grand Ballroom B	Open
8:00 a.m. - 12:05 p.m.	3C	APS	SPECIALIST SESSION: High Temperature Seal Technology for the Hypersonic Environment: Progress and Challenges - I	Alpine East	Open
8:00 a.m. - 12:00 p.m.	3D	APS	WORKSHOP: Computational Tools for Inlet Design and Analysis	Alpine West	Open
8:00 a.m. - 9:35 a.m.	3E	CS	Reactive Material Performance	Canyon A	Distro D
8:00 a.m. - 9:05 a.m.	3F	CS	Modeling, Simulation, and Component Design	Canyon B	Open
9:05 a.m. - 9:35 a.m.	3F	CS	TOWN HALL MEETING: Liquid Rocket Propulsion	Canyon B	Open
8:00 a.m. - 9:35 a.m.	3G Part I	APS	Engine Testing	Canyon C	Open
10:00 a.m. - 12:05 p.m.	3G Part 2	APS	Experimental Methods	Canyon C	Open
8:00 a.m. - 9:35 a.m.	3H	ESHS	Low Velocity Impact / Hazards Properties	Seminar Theater	Open *
9:35 a.m. - 10:35 a.m.	3H	ESHS	PANEL MEETING: Shock/Impact-Induced Reactions	Seminar Theater	Open
8:00 a.m. - 12:05 p.m.	3I	EPSS	(U) Plume / Wake / Hypersonic Radiation and Signatures	UTNG-Draper	Open S*
9:35 a.m. - 10:35 a.m.	Networking Area Refreshments			Grand Ballroom C	Open
12:00 p.m. - 1:30 p.m.	Lunch Break - On Your Own				
1:30 p.m. - 3:00 p.m.	NASA Glenn Inlet Bleed Research Meeting			Salon 1	Open
1:30 p.m. - 5:35 p.m.	Wednesday Afternoon Technical Sessions, Specialist Sessions, and Panel Meeting				
1:30 p.m. - 3:35 p.m.	3P	APS	Gun Launched Ramjets	Grand Ballroom A	Open *
1:30 p.m. - 3:35 p.m.	3Q	APS	Computational and Analytic Methods - I	Grand Ballroom B	Open
1:30 p.m. - 5:05 p.m.	3R	APS	SPECIALIST SESSION: High Temperature Seal Technology for the Hypersonic Environment: Progress and Challenges - II	Alpine East	Open
1:30 p.m. - 5:35 p.m.	3S	PIB	SPECIALIST SESSION: Space Access Mobility and Logistics	Alpine West	Open
1:30 p.m. - 5:05 p.m.	3T	CS	Solid Propellant Modeling and Simulation	Canyon A	Open *
1:30 p.m. - 3:35 p.m.	3U	CS	Reactive Material Development	Canyon B	Open *
4:05 p.m. - 5:35 p.m.	3U	CS	PANEL MEETING: Reactive Materials	Canyon B	Distro D
1:30 p.m. - 5:35 p.m.	3V	EPSS	SPECIALIST SESSION: EPSS Tutorial: Setup and Execution of the JANNAF PWH Codes and SPIRITS-AC3	Canyon C	Open
1:30 p.m. - 4:35 p.m.	3W	ESHS	Detonative Modeling and Experimentation - I	Seminar Theater	Open *
1:30 p.m. - 4:30 p.m.	3X	APS	(U) SPECIALIST SESSION: HyFly2 Overview and Test Results	UTNG-Draper	Distro B-S
3:05 p.m. - 4:05 p.m.	Networking Area Refreshments			Grand Ballroom C	Open
6:00 p.m. - 7:30 p.m.	Networking Reception JANNAF Badge or Guest Ticket required			Grand Ballroom A-C	Open

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Networking Opportunities	Session Details
Closed Meetings	Panel Meetings

"Distro **D**" and "Open *****" indicate a session with at least one presentation restricted at B, D, or E

SCHEDULE - Thursday, 7 December

7:00 a.m. - 5:00 p.m.	On-Site Check-In and Registration Desk Open			2nd Floor Foyer	
7:00 a.m. - 5:00 p.m.	I.T. Office Open (for Presenters and Session Chairs needing technical assistance)			Topaz	Open
7:00 a.m. - 8:00 a.m.	Networking Area Refreshments			Grand Ballroom C	Open
7:15 a.m. - 7:30 a.m.	Session Chair Meeting (all Thursday sessions and Friday classified session)			Seminar Theater	Closed
9:00 a.m. - 4:30 p.m.	On-Site Reading Room (also available 24/7 virtually with your own device)			Topaz	Open
8:00 a.m. - 12:35 p.m.	Thursday Morning Technical Sessions and Specialist Session				
8:00 a.m. - 10:05 a.m.	4D Part I	APS/CS	Rotating Detonation Engine Modeling and Operability	Alpine West	Open
10:30 a.m. - 12:05 p.m.	4D Part 2	APS	Rotating Detonation Engine Integration	Alpine West	Open
8:00 a.m. - 9:35 a.m.	4E	CS	Experimental and Numerical Studies in Solid Fuel Combustion	Canyon A	Open
8:30 a.m. - 10:15 a.m.	4F Part I	CS	Solid Propellant Testing Methods	Canyon B	Open *
10:30 a.m. - 12:35 p.m.	4F Part 2	CS	Solid Propellant and Fuel Combustion	Canyon B	Open
8:00 a.m. - 9:35 a.m.	4G Part I	APS	Inlets	Canyon C	Open
10:30 a.m. - 12:05 p.m.	4G Part 2	APS	Other Topics	Canyon C	Open
8:00 a.m. - 12:35 p.m.	4H	ESHS	Detonative Modeling and Experimentation - II	Seminar Theater	Distro D
8:00 a.m. - 11:35 a.m.	4I	APS	(U) <i>SPECIALIST SESSION</i> : Hypersonic Programs Overview	UTNG-Draper	Open S
9:00 a.m. - 11:30 a.m.	PIB Large Liquid Propulsion Working Group Meeting			Salon 3	Closed
9:35 a.m. - 10:35 a.m.	Networking Area Refreshments			Grand Ballroom C	Open
12:00 p.m. - 1:30 p.m.	Lunch Break - On Your Own				
12:00 p.m. - 1:15 p.m.	CS Technical Steering Group Meeting			Salon 2	Closed
1:00 p.m. - 5:00 p.m.	PIB Executive Committee Meeting			Salon 1	Closed
1:30 p.m. - 6:35 p.m.	Thursday Afternoon Technical Sessions, Specialist Sessions, and Working Group and Panel Meetings				
1:30 p.m. - 6:05 p.m.	4P	APS	Ramjet Combustion	Grand Ballroom A	Open
1:30 p.m. - 4:35 p.m.	4Q	APS	Scramjet Fuels - II	Grand Ballroom B	Open
4:35 p.m. - 6:05 p.m.	4Q	APS	<i>PANEL MEETING</i> : Fuels	Grand Ballroom B	Open
1:30 p.m. - 6:35 p.m.	4R	APS	Computational Scramjet and Inlet Analysis	Alpine East	Open *
1:30 p.m. - 4:35 p.m.	4S	APS/CS	Rotating Detonation Engine Fueling	Alpine West	Open
4:35 p.m. - 6:35 p.m.	4S	APS	<i>WORKING GROUP MEETING</i> : Pressure Gain Combustion	Alpine West	Open
1:30 p.m. - 3:35 p.m.	4T Part I	CS	Propulsion System Component Characterization, Test, and Analysis	Canyon A	Open
4:30 p.m. - 5:05 p.m.	4T Part 2	CS	Modeling of Reactive Material Performance	Canyon A	Open *
1:30 p.m. - 5:35 p.m.	4U	CS	<i>SPECIALIST SESSION</i> : Combustion and Performance of Additively Manufactured Energetic Materials	Canyon B	Open *
5:35 p.m. - 6:05 p.m.	4U	CS	<i>PANEL MEETING</i> : Kinetics	Canyon B	Open
1:30 p.m. - 5:05 p.m.	4V	EPSS	Composite Scene Signatures of Plume / Wake / Hypersonic Flowfield and Hardbody Configurations	Canyon C	Open
1:30 p.m. - 3:35 p.m.	4W	ESHS	Liquid and Solid Propellant Safety Testing	Seminar Theater	Open *
3:35 p.m. - 4:20 p.m.	4W	ESHS	<i>PANEL MEETING</i> : Life Cycle Safety and Hazards Classification	Seminar Theater	Open
1:30 p.m. - 4:00 p.m.	4X	APS	(U) <i>SPECIALIST SESSION</i> : Pony Express Flight Test Review	UTNG-Draper	Open S
3:05 p.m. - 4:05 p.m.	Networking Area Refreshments			Grand Ballroom C	Open
6:30 p.m. - 8:30 p.m.	EPSS Technical Steering Group Meeting			Salon 2	Closed
5:00 p.m. - 7:00 p.m.	ESHS Technical Steering Group Meeting			Salon 3	Closed

SCHEDULE - Friday, 8 December

7:00 a.m. - 5:00 p.m.	On-Site Check-In and Registration Desk Open			2nd Floor Foyer	
7:00 a.m. - 5:00 p.m.	I.T. Office Open (for Presenters and Session Chairs needing technical assistance)			Topaz	Open
7:00 a.m. - 8:00 a.m.	Networking Area Refreshments			Grand Ballroom C	Open
7:15 a.m. - 7:30 a.m.	Session Chair Meeting (Friday sessions)			Seminar Theater	Closed
9:00 a.m. - 2:00 p.m.	On-Site Reading Room (also available till 2:00 p.m. virtually with your own device)			Topaz	Open
8:00 a.m. - 12:15 p.m.	Friday Morning Technical Sessions, Workshop, and Specialist Session				
8:30 a.m. - 10:05 a.m.	5A	APS	Turbine Based Combined-Cycle / Mode Transition	Grand Ballroom A	Open *
8:00 a.m. - 9:35 a.m.	5C	APS	SiC Material Applications and Analysis	Alpine East	Open
8:00 a.m. - 12:00 p.m.	5D	APS	WORKSHOP: RDE CFD Post Processing Methods	Alpine West	Open
8:00 a.m. - 10:05 a.m.	5E	CS	Computational Studies in Dual-Mode Ramjet Environments	Canyon A	Open
8:00 a.m. - 9:35 a.m.	5F	CS/APS	Topics in Rotating Detonation Engine Research	Canyon B	Open
8:00 a.m. - 12:15 p.m.	5G	EPSS	SPECIALIST SESSION: EPSS Tutorial: Gas / Material Interactions	Canyon C	Open
8:00 a.m. - 9:05 a.m.	5H	APS	Studies of Fluid Thermal Structural Interactions	Seminar Theater	Open
9:35 a.m. - 10:35 a.m.	Networking Area Refreshments			Grand Ballroom C	Open
12:00 p.m. - 1:30 p.m.	Lunch Break - On Your Own				
1:30 p.m. - 5:45 p.m.	Friday Afternoon Tehnical Sessions and Specialist Session				
1:30 p.m. - 4:35 p.m.	5P	APS	Ramjet Inlets and External Flow	Grand Ballroom A	Open *
1:30 p.m. - 4:35 p.m.	5R	APS	Numerical and Experimental Material Analysis for Carbon-Carbon	Alpine East	Open *
1:30 p.m. - 5:35 p.m.	5S	APS	Computational and Analytic Methods - II	Alpine West	Open
1:30 p.m. - 5:05 p.m.	5U	APS	Computational Tool and Physical Testing Developments	Canyon B	Open
1:30 p.m. - 5:45 p.m.	5V	EPSS/CS	SPECIALIST SESSION: EPSS Tutorial: Computational Methods for Developing Chemical Kinetic Mechanisms	Canyon C	Open
3:05 p.m. - 4:00 p.m.	Networking Area Refreshments			Grand Ballroom C	Open

Schedule Color Key

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	Networking Opportunities		Session Details
	Closed Meetings		Panel Meetings
"Distro D " and "Open * " indicate a session with at least one presentation restricted at B, D, or E			