

# JANNAF JPM/PIB/CS/APS/EPSS/ESHS/MSS

## 6 - 10 JUNE 2022

### SCHEDULE AT A GLANCE

This year's technical program currently consists of more than 400 presentations in 64 technical sessions; 9 specialist sessions; 4 workshops; keynote and plenary presentations; and a poster session; plus 10 panel meetings, 2 town hall meetings, and several working group meetings. A detailed daily schedule of all sessions, workshops, meetings and networking activities is provided below and continues through page 5. Detailed agendas of the technical sessions, specialist sessions, and workshops are listed in the Program Section of the Preliminary Program beginning on page 25 (login to your JANNAF Portal account is required for access).

A Schedule Color Key has been provided on pages 2, 3, 4, and 5.

SCHEDULE - Sunday, 5 June		
5:00 p.m. - 7:00 p.m.	On-Site Check-In and Registration Desk Open	Rotunda

SCHEDULE - Monday, 6 June					
7:00 a.m. - 5:00 p.m.	On-Site Check-In and Registration Desk Open			Rotunda	
7:00 a.m. - 5:00 p.m.	I.T. Office Open (for Presenters and Session Chairs needing technical assistance)			Blue Point I	Open
7:00 a.m. - 8:00 a.m.	Networking Area Refreshments			Grand Ballroom I	Open
7:15 a.m. - 7:30 a.m.	Session Chair Meeting (Monday Sessions)			Blue Point III	Closed
9:00 a.m. - 4:30 p.m.	On-Site Reading Room (also available 24/7 virtually with your own device)			Ballroom Foyer Alcove	Open
<b>8:00 a.m. - 12:35 p.m.</b>	<b>Monday Morning Technical Sessions, Specialist Session, Workshop, and Panel Meeting</b>				
8:00 a.m. - 9:35 a.m.	IB	JPM	High-Speed Test Facilities	Grand Ballroom III	Open
8:00 a.m. - 12:05 p.m.	IC	CS	<i>SPECIALIST SESSION</i> : Kinetics Studies in Combustion	Grand Ballroom IV	Open
8:00 a.m. - 10:05 a.m.	ID	ESHS	Insensitive Munitions Technology	Grand Ballroom V	Open
10:35 a.m. - 12:35 p.m.	ID	ESHS	<i>PANEL MEETING</i> : Inensitive Munitions Technology	Grand Ballroom V	Open
8:00 a.m. - 12:05 p.m.	IE	APS	Rotating Detonation Engines - I: Components	Pearl Ballroom I	Open
8:00 a.m. - 11:35 a.m.	IF	APS	Aether - I: System Design and Analysis	Pearl Ballroom II	Open
8:00 a.m. - 11:05 a.m.	IG	EPSS	Plume/Wake/Hypersonic Flowfield Measurements	Pearl Ballroom III	Open
8:00 a.m. - 11:35 a.m.	IH	APS/CS	<i>WORKSHOP</i> : Research Capabilities & Facilities for Solid Fuel Ramjet Testing - I	Blue Point II	Open
9:35 a.m. - 10:35 a.m.	Networking Area Refreshments			Grand Ballroom I	Open
12:00 p.m. - 1:30 p.m.	Lunch Break - On Your Own				
<b>1:30 p.m. - 7:35 p.m.</b>	<b>Monday Afternoon Technical Sessions, Workshop, Specialist Session, and Panel Meetings</b>				
1:30 p.m. - 6:05 p.m.	IM	MSS	<i>SPECIALIST SESSION</i> : Emerging Hypersonics Capabilities from the University Consortium for Applied Hypersonics (UCAH)	Grand Ballroom II	Open
1:30 p.m. - 5:35 p.m.	IN	APS	High Speed Ground Testing Capabilities	Grand Ballroom III	Open
5:35 p.m. - 6:35 p.m.	IN	APS	<i>PANEL MEETING</i> : Engine Testing and Validation	Grand Ballroom III	Open
1:30 p.m. - 4:35 p.m.	IO	CS	Propellant Modeling and Simulation Through Testing	Grand Ballroom IV	Open
1:30 p.m. - 5:35 p.m.	IP	ESHS	Energetic Defect Characterization (EDC)	Grand Ballroom V	Open
5:35 p.m. - 7:35 p.m.	IP	ESHS	<i>PANEL MEETING</i> : Energetic Defect Characterization	Grand Ballroom V	Open
1:30 p.m. - 4:35 p.m.	IQ	APS	Advanced Hypersonic Material Development - I	Pearl Ballroom I	Open
1:30 p.m. - 5:05 p.m.	IR	CS	Reactive Materials	Pearl Ballroom II	Open
5:05 p.m. - 5:55 p.m.	IR	CS	<i>PANEL MEETING</i> : Reactive Materials	Pearl Ballroom II	Open
1:30 p.m. - 5:05 p.m.	IS	EPSS	Plume/Wake/Hypersonic Flowfield Modeling	Pearl Ballroom III	Open
1:30 p.m. - 5:05 p.m.	IT	APS/CS	<i>WORKSHOP</i> : Research Capabilities & Facilities for Solid Fuel Ramjet Testing - II	Blue Point II	Open
3:05 p.m. - 4:05 p.m.	Networking Area Refreshments			Grand Ballroom 2	Open
5:00 p.m. - 7:00 p.m.	APS Inflow Profile Effects Working Group Meeting			Blue Point III	Open

## SCHEDULE - Tuesday, 7 June

7:00 a.m. - 5:00 p.m.	On-Site Check-In and Registration Desk Open			Grand Ballroom Foyer	
7:00 a.m. - 5:00 p.m.	I.T. Office Open (for Presenters and Session Chairs needing technical assistance)			Blue Point I	Open
7:00 a.m. - 8:00 a.m.	Networking Area Refreshments			Grand Ballroom I	Open
7:15 a.m. - 7:30 a.m.	Session Chair Meeting (all Tuesday sessions and Wednesday classified sessions)			Blue Point III	Closed
8:00 a.m. - 10:00 a.m.	KEYNOTE ADDRESS: Dr. Venkateswaran Sankaran - AFRL, WPAFB, OH Awards and Announcements			Grand Ballroom II	Open
9:00 a.m. - 4:30 p.m.	On-Site Reading Room (also available 24/7 virtually with your own device)			Ballroom Foyer Alcove	Open
9:30 a.m. - 10:00 a.m.	Networking Area Refreshments			Grand Ballroom I	Open
10:00 a.m. - 6:00 p.m.	JANNAF Technical Executive Committee Meeting			Board Room	Closed
<b>10:00 a.m. - 12:35 p.m.</b>	<b>Tuesday Morning Technical Sessions and Plenary</b>				
10:00 a.m. - 12:35 p.m.	2B	APS	Test Facilities	Grand Ballroom III	Open
10:00 a.m. - 11:35 a.m.	2C	CS	Solid Fueled Ramjet Fuels	Grand Ballroom IV	Open
10:00 a.m. - 12:35 p.m.	2D	APS	Computational Tools and Applications	Grand Ballroom V	Open
10:00 a.m. - 12:05 p.m.	2E	APS	Advanced Hypersonic Material Development - II	Pearl Ballroom I	Open
10:00 a.m. - 12:35 p.m.	2F	JPM	Current and Future Space System Development	Pearl Ballroom II	Open
10:00 a.m. - 12:05 p.m.	2G	EPSS	Plume/Wake/Hypersonic Topics	Pearl Ballroom III	Open
10:00 a.m. - 11:05 a.m.	2H	MSS	MSS Plenary	Blue Point II	Open
12:00 p.m. - 1:30 p.m.	Lunch Break - On Your Own				
<b>1:30 p.m. - 8:00 p.m.</b>	<b>Tuesday Afternoon/Evening Technical Sessions, Poster Session, Working Group and Panel Meetings</b>				
2:00 p.m. - 3:35 p.m.	2M	ESHS	Thermal Decomposition and Cookoff	Grand Ballroom II	Open
4:05 p.m. - 4:25 p.m.	2M	ESHS	<i>PANEL MEETING: Cookoff</i>	Grand Ballroom II	Open
1:30 p.m. - 6:20 p.m.	2N	CS	Blast Dynamics	Grand Ballroom III	Open
1:30 p.m. - 5:05 p.m.	2O	APS	Ramjet Fuels and Flames	Grand Ballroom IV	Open
1:30 p.m. - 6:05 p.m.	2P	APS/MSS	Aether - II: Inlet and Combustor	Grand Ballroom V	Open
1:30 p.m. - 4:35 p.m.	2Q	APS	Rotating Detonation Engines - II: Systems	Pearl Ballroom I	Open
4:35 p.m. - 6:35 p.m.	2Q	APS	<i>WORKING GROUP MEETING: Pressure Gain Propulsion</i>	Pearl Ballroom I	Open
1:30 p.m. - 3:35 p.m.	2R Part 1	JPM	Sensors and Measurements for Propulsion Applications	Pearl Ballroom II	Open
4:00 p.m. - 4:35 p.m.	2R Part 2	MSS	Integrated Health Management	Pearl Ballroom II	Open
4:35 p.m. - 5:35 p.m.	2R Part 2	MSS	<i>PANEL MEETING: Integrated Health Management / Modeling and Simulation of System Autonomy</i>	Pearl Ballroom II	Open
1:30 p.m. - 5:00 p.m.	2S	EPSS	EPSS Tutorial: Space Propulsion Systems	Pearl Ballroom III	Open
1:30 p.m. - 3:35 p.m.	2T	MSS	Interior Ballistics and Explosive Modeling	Blue Point II	Open
6:00 p.m. - 8:00 p.m.	2V	EPSS	EPSS Poster Session (includes light refreshments)	Grand Ballroom Foyer	Open
3:05 p.m. - 4:05 p.m.	Networking Area Refreshments			Grand Ballroom I	Open

### Schedule Color Key

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

## SCHEDULE - Wednesday, 8 June

7:00 a.m. - 5:00 p.m.	On-Site Check-In and Registration Desk Open			Grand Ballroom Foyer	
7:00 a.m. - 5:00 p.m.	I.T. Office Open (for Presenters and Session Chairs needing technical assistance)			Blue Point I	Open
7:00 a.m. - 8:00 a.m.	Networking Area Refreshments			Grand Ballroom I	Open
7:15 a.m. - 7:30 a.m.	Session Chair Meeting (Wednesday sessions and Thursday classified session)			Blue Point III	Closed
9:00 a.m. - 4:30 p.m.	On-Site Reading Room (also available 24/7 virtually with your own device)			Ballroom Foyer Alcove	Open
<b>8:00 a.m. - 12:05 p.m.</b>	<b>Wednesday Morning Technical Sessions and Specialist Session</b>				
8:00 a.m. - 11:35 a.m.	3A	PIB	<i>SPECIALIST SESSION</i> : Launch and Space Maneuvering Systems - I	Grand Ballroom II	Open
8:00 a.m. - 9:35 a.m.	3B	CS	Special Topics in Additive Manufacturing	Grand Ballroom III	Open
8:00 a.m. - 11:05 a.m.	3C	CS	Ignition and Combustion in Solid Propellant Guns	Grand Ballroom IV	Open
8:30 a.m. - 11:05 a.m.	3D	APS	Ramjet Design and Aero	Grand Ballroom V	Open
8:00 a.m. - 12:05 p.m.	3E	APS	Rotating Detonation Engines - III: Modeling, Materials and Flow Physics	Pearl Ballroom I	Open
8:00 a.m. - 11:35 a.m.	3F	CS	Fuel Injection, Ignition, and Flameholding	Pearl Ballroom II	Open
8:00 a.m. - 9:35 a.m.	3H Part I	JPM	Hypersonic Propulsion Technologies	Blue Point II	Open
10:30 a.m. - 12:05 p.m.	3H Part 2	MSS	Model Based Systems Engineering	Blue Point II	Open
8:00 a.m. - 12:05 p.m.	3I	EPSS	(U) Plume/Wake/ Hypersonic Radiation and Signatures	NASA LaRC 108	Open
9:35 a.m. - 10:35 a.m.	Networking Area Refreshments			Grand Ballroom I	Open
12:00 p.m. - 1:30 p.m.	Lunch Break - On Your Own				
12:00 p.m. - 1:00 p.m.	PIB Large Liquid Propulsion Working Group Meeting			Pres. Suite 1034	Closed
12:00 p.m. - 1:30 p.m.	APS Technical Steering Group Committee			Blue Point III	Closed
12:00 p.m. - 1:30 p.m.	JPM Program Committee Meeting			Board Room	Closed
<b>1:30 p.m. - 7:05 p.m.</b>	<b>Wednesday Afternoon Technical Sessions, and Town Hall and Panel Meetings</b>				
1:30 p.m. - 5:00 p.m.	3M	EPSS	EPSS Tutorial: Accelerating Signature Predictions	Pearl Ballroom I	Open
1:30 p.m. - 6:05 p.m.	3N	ESHS	Hazard Analyses and Testing for Space Launch Systems	Grand Ballroom III	Open
6:05 p.m. - 7:05 p.m.	3N	ESHS	<i>PANEL MEETING</i> : Safety and Hazard Classification of Solid and Liquid Energetics	Grand Ballroom III	Open
1:30 p.m. - 5:35 p.m.	3O	CS/JPM	Propellants and Charges for Solid Propellant Guns	Grand Ballroom IV	Open
5:35 p.m. - 6:35 p.m.	3O	CS	<i>TOWN HALL MEETING</i> : Guns	Grand Ballroom IV	Open
1:30 p.m. - 6:05 p.m.	3P	APS	Turbopropulsion	Grand Ballroom V	Open
1:30 p.m. - 3:35 p.m.	3Q	APS	Turboramjet Propulsion and Aether - II	Grand Ballroom II	Open
1:30 p.m. - 3:35 p.m.	3R Part I	APS	Flow Measurements	Pearl Ballroom II	Open
4:00 p.m. - 6:05 p.m.	3R Part 2	APS	Advanced Hypersonic Material Testing - I	Pearl Ballroom II	Open
1:30 p.m. - 5:05 p.m.	3S	ESHS	Complex Energetic Response	Pearl Ballroom III	Open
5:05 p.m. - 6:05 p.m.	3S	ESHS	<i>PANEL MEETING</i> : Shock/Impact-Induced Reactions	Pearl Ballroom III	Open
1:30 p.m. - 5:05 p.m.	3T	MSS	Simulation Credibility: Validation, Parameter Calibration, and Uncertainty Quantification	Blue Point II	Open
5:05 p.m. - 5:35 p.m.	3T	MSS	<i>PANEL MEETING</i> : Simulation Credibility	Blue Point II	Open
1:30 p.m. - 4:35 p.m.	3U	APS	(U) Hypersonic System Testing and Trade Studies	NASA LaRC 108	Open
2:00 p.m. - 4:00 p.m.	PIB Reusability Panel Meeting			Blue Point III	Closed
3:05 p.m. - 4:05 p.m.	Networking Area Refreshments			Grand Ballroom I	Open
6:30 p.m. - 8:30 p.m.	Networking Night JANNAF Badge or Guest Ticket required			Grand Ballroom I-II	Open

### Schedule Color Key

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

## SCHEDULE - Thursday, 9 June

7:00 a.m. - 5:00 p.m.	On-Site Check-In and Registration Desk Open			Grand Ballroom Foyer	
7:00 a.m. - 5:00 p.m.	I.T. Office Open (for Presenters and Session Chairs needing technical assistance)			Blue Point I	Open
7:00 a.m. - 8:00 a.m.	Networking Area Refreshments			Grand Ballroom I	Open
7:15 a.m. - 7:30 a.m.	Session Chair Meeting (Thursday Sessions)			Blue Point III	Closed
8:00 a.m. - 11:30 a.m.	PIB Executive Committee Meeting			Blue Point II	Closed
9:00 a.m. - 4:30 p.m.	On-Site Reading Room (also available 24/7 virtually with your own device)			Ballroom Foyer Alcove	Open
<b>8:00 a.m. - 12:05 p.m.</b>	<b>Thursday Morning Technical Sessions, Workshop, Specialist Session, and Town Hall Meeting</b>				
8:00 a.m. - 12:05 p.m.	4B	ESHS/CS	Explosive Initiation Modeling and Experimentation	Grand Ballroom III	Open
8:00 a.m. - 9:05 a.m.	4C	CS	Applications of Solid Propellant Combustion	Grand Ballroom IV	Open
9:05 a.m. - 9:35 a.m.	4C	CS	<i>TOWN HALL MEETING: Solids</i>	Grand Ballroom IV	Open
9:00 a.m. - 11:05 a.m.	4E	CS	Experimental Studies of Rotating Detonation Engines	Pearl Ballroom I	Open
8:00 a.m. - 9:35 a.m.	4F Part I	APS	Advanced Hypersonic Material Testing - II	Pearl Ballroom II	Open
10:00 a.m. - 12:05 p.m.	4F Part 2	APS	Advancements in Structural Components - I	Pearl Ballroom II	Open
8:00 a.m. - 11:05 a.m.	4G	JPM/MSS	<i>WORKSHOP: Scale-Resolving CFD for Propulsion Applications - I</i>	Pearl Ballroom III	Open
8:30 a.m. - 11:35 a.m.	4I	APS	<i>(U) SPECIALIST SESSION: Hypersonic Program Overview</i>	NASA LaRC 108	Open
9:35 a.m. - 10:35 a.m.	Networking Area Refreshments			Grand Ballroom I	Open
12:00 p.m. - 1:30 p.m.	Lunch Break - On Your Own				
12:00 p.m. - 1:30 p.m.	CS Technical Steering Group Meeting			Blue Point II	Closed
12:15 p.m. - 1:30 p.m.	MSS Technical Steering Group Meeting			Board Room	Closed
<b>1:30 p.m. - 6:35 p.m.</b>	<b>Thursday Afternoon Technical Sessions, Workshop, and Panel Meeting</b>				
1:30 p.m. - 5:05 p.m.	4M	PIB	<i>SPECIALIST SESSION: Launch and Space Maneuvering Systems - II</i>	Grand Ballroom II	Open
1:30 p.m. - 4:35 p.m.	4N	APS	Fluid-Thermal-Structural-Interaction - I	Grand Ballroom III	Open
1:30 p.m. - 5:35 p.m.	4O	APS	Scramjet Fuels and Fuel Systems	Grand Ballroom IV	Open
5:35 p.m. - 6:35 p.m.	4O	APS	<i>PANEL MEETING: Fuels</i>	Grand Ballroom IV	Open
1:30 p.m. - 5:35 p.m.	4P	JPM	High-Performance Solid Rocket Motors	Grand Ballroom V	Open
1:30 p.m. - 6:35 p.m.	4Q	APS	HIFIRE Flight 2C	Pearl Ballroom I	Open
1:30 p.m. - 5:05 p.m.	4R	EPSS	Composite Scene Signatures of Plume/Wake/Hypersonic Flowfield and Hardbody	Pearl Ballroom II	Open
1:30 p.m. - 4:35 p.m.	4S	JPM/MSS	<i>WORKSHOP: Scale-Resolving CFD for Propulsion Applications - II</i>	Pearl Ballroom III	Open
3:00 p.m. - 4:05 p.m.	Networking Area Refreshments			Grand Ballroom I	Open
6:00 p.m. - 7:00 p.m.	ESHS Technical Steering Group Meeting			Board Room	Closed
7:00 p.m. - 9:00 p.m.	EPSS Technical Steering Group Meeting			Blue Point II	Closed

### Schedule Color Key

	Meeting Services		Concurrent Sessions or Panel Meetings
	Networking Opportunities		Session Details
	Closed Meetings		Panel, Town Hall, & Working Group Meetings

## SCHEDULE - Friday, 10 June

7:00 a.m. - 2:00 p.m.	On-Site Check-In and Registration Desk Open			Grand Ballroom Foyer	
7:00 a.m. - 5:00 p.m.	I.T. Office Open (for Presenters and Session Chairs needing technical assistance)			Blue Point I	Open
7:00 a.m. - 8:00 a.m.	Networking Area Refreshments			Grand Ballroom I	Open
7:15 a.m. - 7:30 a.m.	Session Chair Meeting (Friday Sessions)			Blue Point III	Closed
9:00 a.m. - 12:00 p.m.	On-Site Reading Room (also available till 3:00 p.m. virtually with your own device)			Ballroom Foyer Alcove	Open
<b>8:00 a.m. - 12:35 p.m.</b>	<b>Friday Morning Technical Sessions and Specialist Sessions</b>				
8:00 a.m. - 9:35 a.m.	5A Part 1	CS	Diagnostics in Combustion	Grand Ballroom II	Open
10:00 a.m. - 12:05 p.m.	5A Part 2	CS	<i>SPECIALIST SESSION:</i> The Costs/Benefits of Intrusive Design Choices in Purposeful CFD Validation Experiments	Grand Ballroom II	Open
8:00 a.m. - 9:05 a.m.	5B	MSS	Hypersonics and Thermal Modeling	Grand Ballroom III	Open
8:30 a.m. - 10:05 a.m.	5C	CS	Solid Propellant Research	Grand Ballroom IV	Open
8:00 a.m. - 11:05 a.m.	5D	APS	Advancements in Structural Components - II	Grand Ballroom V	Open
8:00 a.m. - 9:05 a.m.	5E Part 1	APS	Design and Analysis of Inlets for High Spded Vehicles	Pearl Ballroom I	Open
10:00 a.m. - 12:35 p.m.	5E Part 2	APS	Fluid-Thermal-Structural-Interaction - II	Pearl Ballroom I	Open
8:00 a.m. - 11:05 a.m.	5F	APS	Scramjet Combustion Experiments	Pearl Ballroom II	Open
8:00 a.m. - 12:10 p.m.	5G	EPSS/CS/ APS	Joint EPSS/CS/APS Tutorial: Computational Chemistry Prediction Methods	Pearl Ballroom III	Open
8:00 a.m. - 11:35 a.m.	5H	APS/MSS	<i>SPECIALIST SESSION:</i> Computational Fluid Dynamics Tools for Hypersonic Airbreathing Propulsion	Blue Point II	Open
9:35 a.m. - 10:35 a.m.	Networking Area Refreshments			Grand Ballroom I	Open
12:00 p.m. - 1:30 p.m.	Lunch Break - On Your Own				
<b>1:30 p.m. - 5:05 p.m.</b>	<b>Friday Afternoon Tehnical Sessions and Specialist Session</b>				
1:30 p.m. - 5:05 p.m.	5N	APS	High Speed Vehicle Design Advancements	Grand Ballroom III	Open
1:30 p.m. - 4:50 p.m.	5O	EPSS	<i>SPECIALIST SESSION:</i> Interagency Collaboration Forum: Advanced Methods for Developing Chemical Kinetic Mechanisms	Grand Ballroom IV	Open
1:30 p.m. - 3:35 p.m.	5P	APS	High Speed Compression Systems	Grand Ballroom V	Open
3:05 p.m. - 4:00 p.m.	Networking Area Refreshments			Grand Ballroom I	Open

### Schedule Color Key

	Meeting Services		Concurrent Sessions or Panel Meetings
	Networking Opportunities		Session Details
	Closed Meetings		Panel, Town Hall, & Working Group Meetings