

# JANNAF JPM / PIB / MSS / LPS / SPS

## 6 – 9 MAY 2024

### SCHEDULE AT A GLANCE

This year’s technical program currently consists of more than 250 presentations in 45 technical sessions; 5 specialist sessions; 2 workshops; and 6 panel meetings. A detailed daily schedule of all sessions, workshops, meetings, and networking activities is provided below and continues through page 4. Detailed agendas of the technical sessions, specialist sessions, and workshops (if available) are listed in the Program Section of the Preliminary Program beginning on page 21.

Please note that the agendas of 8 technical sessions begin with at least one presentation that is restricted at either distribution statement B (U.S. Government only) or D (DoD and DoD Contractors only). Sessions with at least one restricted presentation are indicated in the Schedule at a Glance below and through page 20 with “Open\*”. Please review the detailed session agendas on pages 21 - 45 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 each of the following pages.

SCHEDULE - Monday, 6 May					
10:00 a.m. - 5:00 p.m.	On-Site Check-In and Registration Desk Open			2nd Floor Foyer	
10:00 a.m. - 5:00 p.m.	I.T. Office Open (for Presenters and Session Chairs needing technical assistance)			Frontier	Open
10:00 a.m. - 11:00 a.m.	Networking Area Refreshments			One Broadway	Open
11:00 a.m. - 12:00 p.m.	Early Career Working Group Meeting			Kiamichi	Open
12:00 p.m. - 1:30 p.m.	Lunch Break - On Your Own				
12:45 p.m. - 1:00 p.m.	Session Chair Meeting (Monday Sessions)			Red Carpet	Closed
1:30 p.m. - 24 Hours	Virtual Reading Room (24/7 virtually with your own device)			Virtual	Open
1:30 p.m. - 6:05 p.m.	<b>Monday Afternoon Technical Sessions, Specialist Session, and Panel Meeting</b>				
1:30 p.m. - 5:00 p.m.	IP	LPS	<i>SPECIALIST SESSION:</i> Additive Manufacturing for Propulsion Systems	18th Century	Open
1:30 p.m. - 5:05 p.m.	IQ	LPS	Propellant Characterization and Performance - I	19th Century	Open
1:30 p.m. - 4:35 p.m.	IR	SPS	Nuclear Thermal Propulsion	20th Century	Open
1:30 p.m. - 3:05 p.m.	IS	JPM	Solid Propellant Development and Evaluation	Plaza North	Open
1:30 p.m. - 3:35 p.m.	IT	LPS	New Engine Concepts and Developments	Plaza South	Open
1:30 p.m. - 5:35 p.m.	IU	MSS	System Level Modeling and Model Based Systems Engineering	Green Country	Open
5:35 p.m. - 6:05 p.m.	IU	MSS	<i>PANEL MEETING:</i> Model Based Engineering	Green Country	Open
1:30 p.m. - 4:35 p.m.	IV	SPS	Small Satellite Propulsion - I	Kiamichi	Open
3:05 p.m. - 4:05 p.m.	Networking Area Refreshments			One Broadway	Open

Schedule Color Key			
	Meeting Services		Concurrent Sessions or Panel Meetings
	Networking Opportunities		Session Details
	Closed Meetings		Panel Meetings
“Open*” indicates a session with at least one presentation restricted at B or D			

## SCHEDULE - Tuesday, 7 May

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)			Frontier	Open
7:00 a.m. - 8:00 a.m.	Networking Area Refreshments			One Broadway	Open
7:15 a.m. - 7:30 a.m.	Session Chair Meeting (Tuesday sessions)			Red Carpet	Closed
8:00 a.m. - 10:00 a.m.	KEYNOTE ADDRESS: Dr. Jonathan E. Jones - NASA Engineering and Safety Center, Huntsville, AL, to be followed by Awards and Announcements			Century Ballroom	Open
24 hours	Virtual Reading Room (available 24/7 virtually with your own device)			Virtual	Open
9:30 a.m. - 10:00 a.m.	Networking Area Refreshments			One Broadway	Open
10:00 a.m. - 5:00 p.m.	JANNAF Technical Executive Committee Meeting			Great Plains	Closed
<b>10:00 a.m. - 12:05 p.m.</b>	<b>Tuesday Morning Technical Sessions, Specialist Session, and Panel Meeting</b>				
10:00 a.m. - 12:05 p.m.	2A	LPS	<i>SPECLIAST SESSION</i> : Rotating Detonation Rocket Engine Development Progress, Gaps, and Lessons Learned	18th Century	Open
10:00 a.m. - 11:35 a.m.	2C	SPS	Electric Propulsion Ground Facility Effects Research	20th Century	Open
10:00 a.m. - 12:05 p.m.	2D	JPM	Future Space Systems and Propulsion Components - I	Plaza North	Open
10:00 a.m. - 11:05 a.m.	2E	JPM	Advanced Topics in Tactical Propulsion	Plaza South	Open
10:00 a.m. - 11:00 a.m.	2F Part 1	MSS	<i>SPECIALIST SESSION</i> : MSS Plenary	Green Country	Open
11:00 a.m. - 11:35 a.m.	2F Part 2	MSS	Digital Engineering Processes	Green Country	Open
12:00 p.m. - 1:30 p.m.	Lunch Break - On Your Own				
<b>1:30 p.m. - 6:05 p.m.</b>	<b>Tuesday Afternoon Technical Sessions and Panel Meetings</b>				
1:30 p.m. - 2:35 p.m.	2P Part 1	LPS	Turbomachinery and Valve Design, Analysis, and Testing	18th Century	Open
3:00 p.m. - 4:35 p.m.	2P Part 2	LPS	Propellant Tank Systems Design, Analysis, and Testing	18th Century	Open
1:30 p.m. - 4:05 p.m.	2Q	LPS	Propellant Characterization and Performance - II	19th Century	Open
4:35 p.m. - 5:35 p.m.	2Q	LPS	<i>PANEL MEETING</i> : Hydrocarbon Fuels	19th Century	Open
1:30 p.m. - 6:05 p.m.	2R	SPS	Electric Propulsion Subsystem Research and Development	20th Century	Open *
1:30 p.m. - 4:35 p.m.	2S	JPM	Future Space Systems and Propulsion Components - II	Plaza North	Open
1:30 p.m. - 5:05 p.m.	2T	LPS	Propulsion-Induced Environments and Loads - Liftoff and Landing	Plaza South	Open
1:30 p.m. - 4:35 p.m.	2U	MSS	Computational Modeling and Machine Learning	Green Country	Open *
1:30 p.m. - 4:35 p.m.	2V	SPS	Small Satellite Propulsion - II	Kiamichi	Open
5:05 p.m. - 6:05 p.m.	2V	SPS	<i>PANEL MEETING</i> : Micropropulsion Technologies, Development Programs, Missions and Requirements	Kiamichi	Open
3:05 p.m. - 4:05 p.m.	Networking Area Refreshments			Grand Ballroom C	Open

### Schedule Color Key

	Meeting Services		Concurrent Sessions or Panel Meetings
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	Closed Meetings		Panel Meetings

“Open \*” indicates a session with at least one presentation restricted at B or D

## SCHEDULE - Wednesday, 8 May

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)			Frontier	Open
7:00 a.m. - 8:00 a.m.	Networking Area Refreshments			One Broadway	Open
7:15 a.m. - 7:30 a.m.	Session Chair Meeting (Wednesday sessions)			Red Carpet	Closed
24 hours	Virtual Reading Room (available 24/7 virtually with your own device)			Virtual	Open
<b>8:00 a.m. - 12:10 p.m.</b>	<b>Wednesday Morning Technical Sessions, Specialist Sessions, and Workshop</b>				
8:30 a.m. - 12:10 p.m.	3A	PIB	<i>SPECIALIST SESSION</i> : Space Access Mobility and Logistics	18th Century	Open
8:00 a.m. - 9:35 a.m.	3B Part 1	LPS	Engine Production and Manufacturing Advancements	19th Century	Open
10:00 a.m. - 11:35 a.m.	3B Part 2	LPS	Additively Manufactured Component Development and Test	19th Century	Open
8:00 a.m. - 12:05 p.m.	3C	SPS	<i>WORKSHOP</i> : Electric Propulsion Operation in the Space Environment and Facility Interactions VI (EPOSEVII) - I	20th Century	Open
8:00 a.m. - 11:35 a.m.	3D	JPM	Sensors and Measurements for Propulsion Applications	Plaza North	Open*
8:00 a.m. - 10:05 a.m.	3E	LPS	Propulsion-Induced Environments and Loads - Propellant Dynamics	Plaza South	Open
8:00 a.m. - 12:00 p.m.	3F	MSS	<i>SPECIALIST SESSION</i> : Digital Engineering for Test Operations	Green Country	Open
8:00 a.m. - 10:05 a.m.	3G	SPS	Spacecraft Propulsion Systems	Kiamichi	Open
9:35 a.m. - 10:35 a.m.	Networking Area Refreshments			One Broadway	Open
12:00 p.m. - 1:30 p.m.	Lunch Break - On Your Own				
12:00 p.m. - 1:15 p.m.	MSS Technical Steering Group Meeting			Red Carpet	Closed
12:00 p.m. - 1:30 p.m.	LPS Technical Steering Group Meeting			Great Plains	Closed
<b>1:30 p.m. - 5:05 p.m.</b>	<b>Wednesday Afternoon Technical Sessions, Specialist Sessions, and Panel Meeting</b>				
1:30 p.m. - 4:35 p.m.	3P	LPS	Rotating Detonation Rocket Engines - I	18th Century	Open
2:00 p.m. - 3:35 p.m.	3Q	LPS	Advanced Materials for Liquid Propulsion Applications	19th Century	Open
1:30 p.m. - 5:05 p.m.	3R	SPS	<i>WORKSHOP</i> : Electric Propulsion Operation in the Space Environment and Facility Interactions VI (EPOSEVII) - II	20th Century	Open
1:30 p.m. - 5:05 p.m.	3S	JPM	Rocket Testing	Plaza North	Open *
1:30 p.m. - 3:05 p.m.	3T	LPS	Ignition and Dynamics	Plaza South	Open
3:35 p.m. - 5:05 p.m.	3T	LPS	<i>PANEL MEETING</i> : Combustion Stability	Plaza South	Open
1:30 p.m. - 3:35 p.m.	3U	MSS	Simulation Credibility: Computational Studies	Green Country	Open*
3:35 p.m. - 4:35 p.m.	3U	MSS	<i>PANEL MEETING</i> : Simulation Credibility	Green Country	Open
1:30 p.m. - 5:05 p.m.	3V	SPS	Other Propellants	Kiamichi	Open
3:05 p.m. - 4:05 p.m.	Networking Area Refreshments			One Broadway	Open
5:30 p.m. - 7:00 p.m.	Attendee Networking Hour JANNAF Badge required ( <i>this event is for attendees only</i> )			2nd Floor Foyer	Open

### Schedule Color Key

	Meeting Services		Concurrent Sessions or Panel Meetings
	Networking Opportunities		Session Details
	Closed Meetings		Panel Meetings
“Distro <b>D</b> ” and “Open *” indicate a session with at least one presentation restricted at B, D, or E			

## SCHEDULE - Thursday, 9 May

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)			Frontier	Open
7:00 a.m. - 8:00 a.m.	Networking Area Refreshments			One Broadway	Open
7:15 a.m. - 7:30 a.m.	Session Chair Meeting (Thursday sessions)			Red Carpet	Closed
24 Hours - 5:30 p.m.	Virtual Reading Room (available 24/7 virtually with your own device)			Virtual	Open
<b>8:00 a.m. - 12:05 p.m.</b>	<b>Thursday Morning Technical Sessions and Panel Meeting</b>				
8:00 a.m. - 10:05 a.m.	4A	LPS	Rotating Detonation Rocket Engines - II	18th Century	Open
10:05 a.m. - 11:05 a.m.	4A	LPS	<b>PANEL MEETING:</b> Rotating Detonation Rocket Engine	18th Century	Open
8:00 a.m. - 11:35 a.m.	4B	LPS	Engine Ground Testing and Flight Demonstration	19th Century	Open
8:00 a.m. - 10:05 a.m.	4C	SPS	ASCENT Chemical Propulsion - I	20th Century	Open
8:00 a.m. - 10:05 a.m.	4D	JPM	Ramjet Propulsion	Plaza North	Open *
8:00 a.m. - 10:05 a.m.	4E Part I	SPS	Hall Thruster Research and Development	Plaza South	Open
<b>11:00 a.m. - 11:35 a.m.</b>	4E Part 2	MSS	Model Verification and Validation	Plaza South	Open
8:00 a.m. - 12:05 p.m.	4F	MSS	Modeling and Simulation of Hypersonic Vehicles	Green Country	Open
8:00 a.m. - 12:05 p.m.	4G	JPM	Propellants and Propelling Charges for Solid Propellant Guns - I	Kiamichi	Open
9:00 a.m. - 11:30 a.m.	PIB Large Liquid Propulsion Working Group Meeting			Red Carpet	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.	JPM Program Committee Meeting			Executive Boardroom	Closed
12:00 p.m. - 5:30 p.m.	PIB Executive Committee Meeting			Red Carpet	Closed
<b>1:30 p.m. - 5:35 p.m.</b>	<b>Thursday Afternoon Technical Sessions</b>				
1:30 p.m. - 5:35 p.m.	4P	LPS	Rotating Detonation Rocket Engines - III	18th Century	Open
1:30 p.m. - 5:05 p.m.	4Q	LPS	Combustion Device Modeling and Test	19th Century	Open
1:30 p.m. - 4:35 p.m.	4R	SPS	ASCENT Chemical Propulsion - II	20th Century	Open
1:30 p.m. - 4:35 p.m.	4S	JPM	Propulsion for Tactical Systems	Plaza North	Open *
1:30 p.m. - <b>2:35 p.m.</b>	4T Part I	SPS	Cathode Technology	Plaza South	Open
3:30 p.m. - <b>4:35 p.m.</b>	4T Part 2	SPS	HALL Thruster Modeling and Simulation	Plaza South	Open
<b>2:00 p.m. - 5:05 p.m.</b>	4U	MSS	Simulation Credibility: Experimental Studies	Green Country	Open *
1:30 p.m. - 5:05 p.m.	4V	JPM	Propellants and Propelling Charges for Solid Propellant Guns - II	Kiamichi	Open *
3:05 p.m. - 4:05 p.m.	Networking Area Refreshments			One Broadway	Open

### 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