

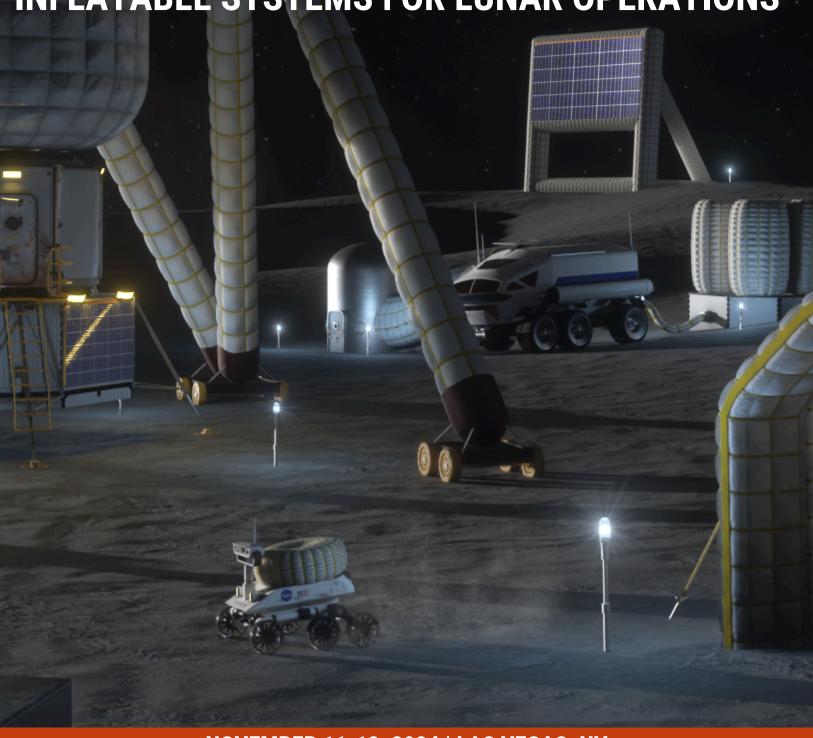


2024 Breakthrough, Innovative & Game-changing (BIG)

Idea Challenge Forum

Engaging Universities in NASA's Mission to Develop Space Exploration Technologies for the Moon to Mars

INFLATABLE SYSTEMS FOR LUNAR OPERATIONS



WELCOME

Engaging Universities in NASA's Mission to Develop Space Exploration Technologies for the Moon to Mars



Congratulations finalists, and welcome to the 2024 BIG Idea Forum and to the thrilling city of Las Vegas! NASA is pleased to be able to hold this year's Forum in tandem with the Lunar Surface Innovation Consortium's (LSIC) Fall Meeting on the beautiful campus of the University of Nevada, Las Vegas. We are excited to learn more about the inflatable technologies and systems you have been working on these past several months and are thrilled to provide a platform for you to share your work with a wider audience here in Las Vegas. Both the BIG Idea Forum and LSIC Fall Meeting provide unique opportunities to engage directly with the aerospace industry by providing face time with potential employers, mentors, and friends. I invite you to learn as much as you can over the next few days and highly recommend you take advantage of this time to develop your network by getting to know your fellow competitors, esteemed judges, and NASA and industry experts. Above all else - enjoy yourselves. You've earned it! Thank you for your dedication, innovation, and BIG ideas! - Niki Werkheiser Director, Technology Maturation

Domain Formulation Lead, Surface Infrastructure and Exploration ('Live') NASA STMD

UNIVERSITY OF MICHIGAN

Caltech

Northwestern University





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AGENDA

November 11-12, 2024 | Las Vegas, NV

Monday, November 11		Tuesday, November 12 (cont'd)	
6:00 - 8:00 PM	BIG Idea Forum Check-in & Networking Dinner* Buca Di Beppo, Excalibur Hotel & Casino 3850 S Las Vegas Blvd. 89109	1:45 - 2:35 PM	Northwestern University with National Aerospace Corporation and IMS Engineered Products METALS: Metallic Expandable Technology
Tuesday, November 12			for Artemis Lunar Structures
University of Nevada, Las Vegas Richard Tam Alumni Center 4505 S. Maryland Pkwy, Las Vegas, NV 89254		2:35 - 2:50 PM	Afternoon Break William Trent Lounge
+303 3. Mai fiana i kwy, Las Vegas, NV 0720+		2:50 - 3:40 PM	University of Michigan
8:45 - 9:45 AM	Morning Pastries* William Trent Lounge		Cargo-BEEP (Cargo Balancing Expandable Exploration Platform)
8:45 - 9:35 AM	Late Check-in & Registration Lobby	3:45 - 4:35 PM	University of Maryland Auxiliary Inflatable Wheels for Lunar Rover
8:45 - 9:35 AM	Team A/V Checks Marietta Tiberti Grand Hall	4:35 - 4:45 PM	Group Photo Marietta Tiberti Grand Hall
8:45 - 9:20 AM	Pre-Forum Judges' Meeting Fred C. Albrecht Boardroom	4:50 - 5:45 PM	Judges' Meeting Fred C. Albrecht Boardroom
9:45 - 10:00 AM	Welcome, Introductions & Announcements Marietta Tiberti Grand Hall	6:30 - 8:30 PM Dinner* Off the Strip, The LINQ Hotel 3535 Las Vegas Blvd. 89109	
10:05 - 10:55 AM	California Institute of Technology with NASA's Jet Propulsion Laboratory, Cislune, and Friends of Amateur Rocketry PILLARS: Plume-deployed Inflatable for Launch and Landing Abrasive Regolith Shielding		**Artemis Award Announced**
		AGENDA LEGEND Events restricted to Judges & Staff are GREEN. Events restricted to Forum Participants are ORANGE. *Note: Meals are restricted to Paid Registrants only	
11:00 - 11:50 AM	Arizona State University AEGIS - Inflatable Lunar Landing Pad System		



Lunch*

William Trent Lounge

Lunar Operations

Brigham Young University

Untethered and Modular Inflatable Robots for

11:50 - 12:50 PM

12:50 - 1:40 PM

2024 BIG IDEA JUDGING PANEL



Doug LittekenCo-Chair, NASA Johnson



KEVIN KEMPTON Co-Chair, NASA Langley



DR. ATHONU CHATTERJEEJohns Hopkins University/APL



DR. MILENA GRAZIANO
Johns Hopkins University/APL



RYAN GUNDLING
Ryzing Technologies



TOM JONES

NASA Marshall



DR. JIN HO KANG NASA Langley



DR. MICHAEL NORDJohns Hopkins University/APL



ARIANNA SANCHEZ
Stellar Solutions (NASA HQ)

The BIG Idea Challenge is sponsored by NASA through a collaboration between the Space Technology Mission Directorate's Game Changing Development (GCD) program and the Office of STEM Engagement's Space Grant Project, and is managed by a partnership between the National Institute of Aerospace and the Johns Hopkins University Applied Physics Laboratory.

https://bigidea.nianet.org

