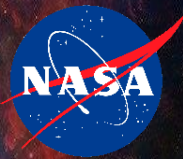




National Aeronautics And
Space Administration

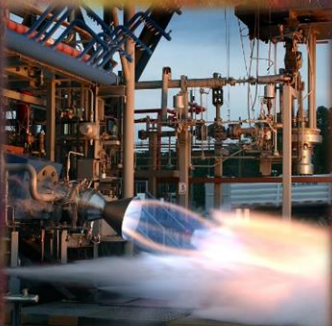


37th ANNUAL THERMAL & FLUIDS ANALYSIS WORKSHOP

Marshall Space Flight Center 2026

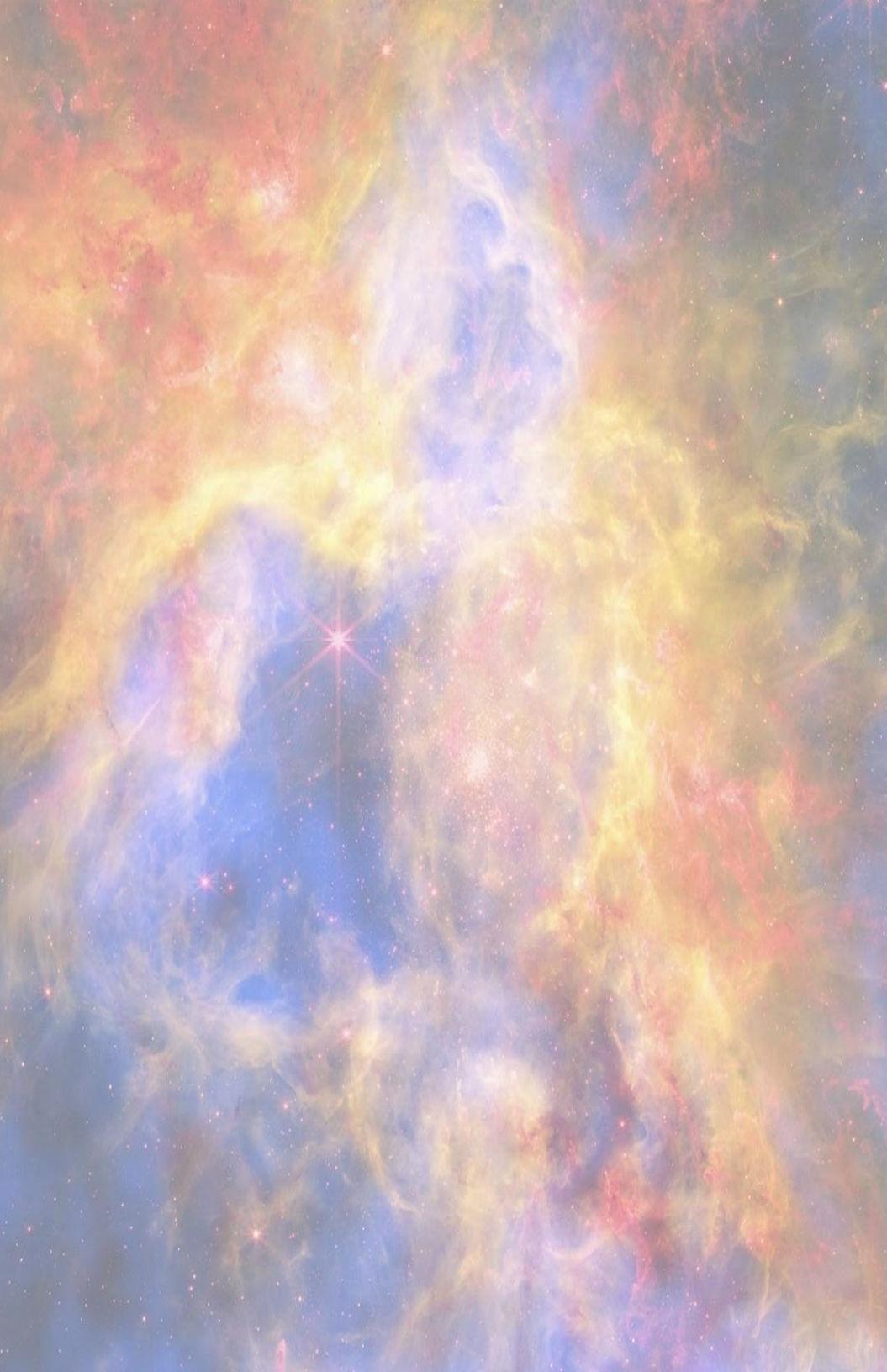
August 31 to September 4, 2026

Huntsville, AL



S-IC FLIGHT STAGE—HUNTSVILLE







37th Annual Thermal and Fluids Analysis Workshop

August 31 to September 4, 2026

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tfaws.app



tfaws.nasa.gov

Chair's Welcome



On behalf of the NASA Marshall Space Flight Center (MSFC) and NASA Engineering & Safety Center (NESC) we thank you for joining us for the 37th annual Thermal and Fluids Analysis Workshop (TFAWS). We are excited to host you here in Huntsville, Alabama.

TFAWS has continued to grow its impact on the thermal and fluids community since its founding in 1989. Each year new methodologies, tools, and processes are shared to further develop thermal and fluids engineering, analysis, and testing. TFAWS brings engineers, researchers, and students from across NASA, industry, and academia to learn, teach, and collaborate.

This year's workshop features:

- Over 100 technical sessions
- Vendor demonstrations and hands on courses
- Short courses
- Panel sessions
- Poster session
- Tours of MSFC

We are also thrilled to showcase our keynote speakers:

- Jan Davis, Author and Retired NASA Astronaut
- Phillip Allen, SLS Program Deputy Chief Engineer
- Paul Gradl, SME for Additive Manufacturing of Liquid Rocket Engines
- Leonardo Barreda, Space Vehicle Systems Office Lead
- Kurt Polzin, Capability Manager for Advanced Propulsion

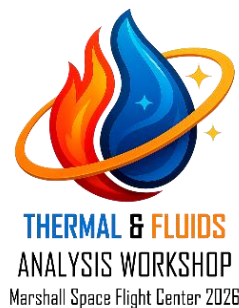
We extend our heartfelt thanks to the support given from NASA MSFC, NESC, and the TFAWS Planning and Steering Committees since TFAWS would not be possible without them.

We hope that your experience at TFAWS 2026 leaves you with new techniques, connections, and the passion to continue to grow on your thermal and fluids journey.

Thank you for joining us and I hope you have a great week,

Jodi Turk
TFAWS 2026 Chair

Jodi Turk



Agenda

Monday August 31st



	Monday August 31, 2026					
Time	Ballroom B-D	Ballroom A	Orion	Saturn V	Monte Sano Boardroom	Madison Boardroom
7:30	Registration					
8:00	Welcome (15 min)					
8:30	Speaker: Phillip Allen 10 min break					
9:00						
9:30	Heat Pipes Short Course	Interdisciplinary		Thermal Control and Protection	Maya HTT Demo	Mathworks Hands On
10:00			Thermal Control and Protection		Redwire Demo	
10:30						
11:00						
11:30	Lunch					
12:00						
12:30						
1:00	Survive the Lunar Night Panel	Aerosciences	Thermal Control and Protection	Thermal Control and Protection	Thermal Control and Protection	Maya HTT Hands On
1:30				Interdisciplinary		
2:00						
2:30						
3:00	Break					Redwire Hands On
3:30	Thermal Control and Protection	Aerosciences	Thermal Control and Protection	Interdisciplinary	Radian Systems Demo	
4:00						
4:30						
5:00	Social Hour at Hotel					
5:30						
6:00	Campus 805 Social					
6:30						
7:00						
7:30						

Tuesday September 1st

	Tuesday September 1, 2026					
Time	Ballroom B-D	Ballroom A	Orion	Saturn V	Monte Sano Boardroom	Madison Boardroom
7:30	Registration					
8:00	Welcome (15 min)					
8:30	Speaker: Paul Gradl 10 min break					
9:00						
9:30	Thermal Technology Panel		Thermal Control and Protection	Thermal Control and Protection	Aerosciences	COMSOL, Inc. Hands On
10:00		Cryogenics				
10:30						
11:00						
11:30	Lunch					
12:00						
12:30						
1:00	Cryogenics	Form Factors, Grey Bodies, and Radiation Conductances Short Course	Thermal Control and Protection	Thermal Control and Protection	Thermal Control and Protection	MSFC GFSSP Hands On
1:30						
2:00						
2:30						
3:00	Break		Break			
3:30	Posters		Posters			
4:00						
4:30						
5:00	Social Hour at Hotel					
5:30						
6:00	Banquet Dinner at the US Space and Rocket Center					
6:30						
7:00						
7:30						

Wednesday September 2nd

	Wednesday September 2, 2026					
Time	Ballroom B-D	Ballroom A	Orion	Saturn V	Monte Sano Boardroom	Madison Boardroom
7:30	Registration					
8:00	Welcome (15 min)					
8:30	Speaker: Leonardo Barreda 10 min break					
9:00						
9:30	MSFC Thermal Testing Lessons Learned Short Course	Cryogenics	Thermal Control and Protection	Thermal Control and Protection	Mainstream Eng Corp Demo	Radian Systems Hands On
10:00						
10:30						
11:00				Thermal Control and Protection		
11:30	Lunch					
12:00						
12:30						
1:00	Ansys, part of Synopsis Demo	Cryogenics	Interdisciplinary	Thermal Control and Protection	TDT Meeting Invite Only	Meshed Lunar Terrain Thermal Model Building Short Course
1:30						
2:00						
2:30						
3:00	Break			Quantum Qool Demo		
3:30	Cryogenic Fluid Management Panel	Thermal Control and Protection	Thermal Control and Protection			
4:00						
4:30						
5:00	Social Hour at Hotel					
5:30						
6:00	Trash Panda Game					
6:30						
7:00						
7:30						

Thursday September 3rd

	Thursday September 3, 2026					
Time	Ballroom B-D	Ballroom A	Orion	Saturn V	Monte Sano Boardroom	Madison Boardroom
7:30	Registration					
8:00	Welcome (15 min)					
8:30	Speaker: Kurt Polzin					
9:00	10 min break					
9:30	Nuclear Propulsion Panel	Interdisciplinary	Thermal Control and Protection	CUI Session <i>Restricted Attendance</i>	Interdisciplinary	Kairo-Technologies Hands On
10:00						
10:30						
11:00		Aerosciences				
11:30	Lunch					
12:00						
12:30						
1:00	Tours				Breakout Meeting	Ansys, part of Synopsys Hands On
1:30						
2:00						
2:30						
3:00						
3:30						
4:00						
4:30						
5:00	Social Hour at Hotel				Steering Committee Meeting Invite Only	
5:30						
6:00	Art Museum					
6:30						
7:00						
7:30						

Friday September 4th

Tours and Breakout Meetings 8:00 am – 1:00 pm

Speakers



Phillip Allen

SLS Program Deputy Chief Engineer

Monday 8:30 am

Dr. Phillip Allen is a husband, father, and the Program Deputy Chief Engineer for NASA's SLS (Space Launch System) Program, managed at NASA's Marshall Space Flight Center in Huntsville, Alabama. Alongside the SLS Chief Engineer, as Deputy Chief Engineer for the SLS launch vehicle Dr. Allen directs the efforts of approximately 5,000 engineers across the country. His work entails critical technical decisions and technical integration, bringing together the rocket, Orion capsule and ground launch systems to ensure mission success from rollout to in-space capsule separation. On launch day The Chief Engineer and Dr. Allen lead hundreds of engineers, working in real-time to resolve challenges and ultimately give the "go" for launch readiness. In addition, he is the supervisor for all the NASA SLS Chief Engineers for each of the individual elements of SLS.

Dr. Allen attended Freed Hardeman University before finishing his undergraduate degree in Mechanical Engineering at the University of Memphis. He then earned a master's degree and Ph.D. in mechanical engineering from Tennessee Technological University in Cookeville. He has worked for NASA's Marshall Space Flight Center since 2003 holding positions of structural analyst, Assistant Division Chief for the Materials Analysis and Test Division, Deputy Chief Engineer for SLS Liquid Engines Office, Deputy Chief Engineer for SLS Stages Office, and now SLS Program Deputy Chief Engineer.

Notable awards include NASA Silver Snoopy Award, NASA Software of the Year Award, NASA Exceptional Engineering Achievement Medal, and the ASTM Award of Merit along with the title of ASTM Fellow.



Dr. Paul Gradl

SME for Additive Manufacturing of Liquid Rocket Engines

Tuesday 8:30 am

Dr. Paul Gradl is a principal engineer and subject matter expert (SME) at the NASA Marshall Space Flight Center (MSFC) in Huntsville, Alabama. Dr. Gradl serves as a Principal Investigator and leads several projects for additive manufacturing of liquid rocket engine engines and has supported various development and flight programs over the last 22+ years. He authored and co-authored over 160+ journal articles, conference papers and book chapters; published a book titled “Metal Additive Manufacturing for Propulsion Applications,” in 2022; holds five patents and awarded NASA’s 2024 and 2025 ‘*Patent of the Year*’; and regularly teaches courses in additive manufacturing. Dr. Gradl is the recipient of numerous NASA and industry awards and medals; an Associate Fellow of the American Institute of Aeronautics and Astronautics (AIAA), a member of Society of Manufacturing Engineers, and serves on several additive manufacturing industry and government committees and as an advisor to industry. Gradl was named one of “The Most Influential Personalities of Additive Manufacturing in 2020” by 3Dnatives, recipient of “Engineer of the Year” by AIAA in 2022, received the SME Additive Industry Achievement Award in 2024, and received the 2025 ASTM Award for Additive Manufacturing Industrialization.

Paul has a BS in Mechanical Engineering, a MS in Business Administration from Gannon University, a MS in Systems Engineering from the University of Alabama in Huntsville, and Ph.D. in Aerospace Engineering from Delft University of Technology in the Netherlands.



Leonardo Barreda

Space Vehicle Systems Office Lead

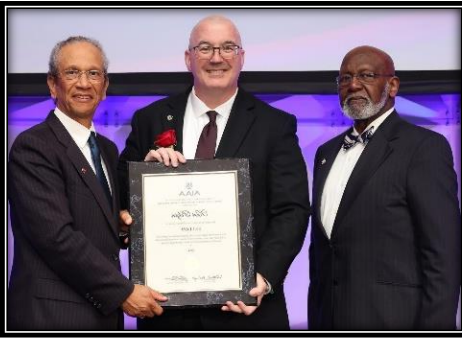
Wednesday 8:30 am

Leonardo Barreda leads the Space Vehicle Systems (SVS) Office within the Human Landing System (HLS) Program at NASA's Marshall Space Flight Center in Huntsville, Alabama. In this technical project management role, he guides high-impact engineering efforts and oversees multidisciplinary teams developing mission-critical systems that advance NASA's strategic goals for lunar exploration.

Raised in the border communities of El Paso, Texas, and Ciudad Juárez, Mexico, Mr. Barreda earned a B.S. in Mechanical Engineering from the University of Texas at El Paso. He began his NASA career in the Propulsion Systems Department at Marshall, performing structural analysis on solid rocket motors, liquid propulsion systems, including lander structures.

After eight years specializing in propulsion structural analysis, Mr. Barreda transitioned into lead roles in systems engineering, supporting interface development and flight evaluation planning for NASA's Space Launch System (SLS). He led the integration and qualification of the Core Stage Thrust Vector Control (TVC) system for Artemis I, ensuring readiness for the program's first launch.

Mr. Barreda now draws on his deep foundation in propulsion analysis, hardware integration, and systems engineering leadership to direct the HLS SVS team. His current focus is on certifying the HLS landers that will support NASA's return to the lunar surface.



Dr. Kurt Polzin

Capability Manager for Advanced
Propulsion

Thursday 8:30 am

Dr. Kurt Polzin is a senior aerospace engineer and technical leader with more than 20 years of experience in advanced space propulsion, spacecraft systems, and aerospace technology development. He is from the George C. Marshall Space Flight Center and currently serves as NASA's Capability Manager for Advanced Propulsion within the Space Transportation Program, where he leads technology development activities spanning electric propulsion, green propellants, solar sails, and other advanced propulsion technologies. Previously, he served for five years as Chief Engineer for NASA's Space Nuclear Propulsion portfolio as the engineering technical authority, leading multidisciplinary teams developing nuclear thermal and nuclear electric propulsion technologies.

His technical expertise includes propulsion system design and analysis, plasma and fluid dynamics, thermal systems, spacecraft power, and experimental methods. Dr. Polzin holds a Ph.D. in Mechanical and Aerospace Engineering from Princeton University and is an AIAA Fellow.

Banquet Dinner Speaker



Jan Davis

NASA Astronaut, STS-47, STS-60, STS-85

Tuesday Night Banquet Dinner

Dr. Jan Davis is currently working part-time for Bastion Technologies, Inc. after serving as its Program Manager for the Safety and Mission Assurance contract at the National Aeronautics and Space Administration's (NASA) Marshall Space Flight Center (MSFC) in Huntsville, Alabama. Prior to that, she worked as a Vice President and Deputy General Manager for Jacobs. Jacobs provides engineering, scientific, and technical support for projects and programs at Marshall.

Dr. Davis began her NASA career at Marshall in 1979 as an aerospace engineer and supported major NASA programs and projects, including the Hubble Space Telescope and the Chandra X-ray Observatory. After the Challenger accident, she became a team lead and lead engineer for the redesign of the Shuttle Solid Rocket Booster External Tank Attach ring.

In 1987, Dr. Davis was selected to join the Astronaut corps at the Johnson Space Center in Houston, Texas. She spent more than 670 hours in space as a mission specialist over the course of her three Space Shuttle flights: STS-47 (1992), STS-60 (1994), and STS-85 (1997). During these flights, she orbited the Earth 445 times. In 1998, she became the Director of the Human Exploration and Development of Space Independent Assurance Office for NASA Headquarters. Dr. Davis returned to MSFC and served as the Director of the Flight Projects Directorate at the Marshall Center until August 2003.

Prior to retiring from NASA in 2005, Dr. Davis was the Director of Safety and Mission Assurance at MSFC leading up to the successful Return to Flight of the Space Shuttle in 2005.

Dr. Davis did her graduate research work in mechanical engineering at the University of Alabama in Huntsville and is a 1971 graduate of Huntsville High School. She also has degrees from the Georgia Institute of Technology and Auburn University in biomedical engineering and mechanical engineering, respectively.

She was elected to the Alabama Aviation Hall of Fame and the Alabama Engineering Hall of Fame. In 2002, she was given the Presidential Rank of Meritorious Executive, and she has received NASA's Exceptional Service Medal, Space Medals, and Outstanding Leadership Medal. In 2012, she received Auburn University's Lifetime Achievement Award and in May 2013, she received the Christine Richard Girl Scouts Lifetime Achievement Award. She has also received the WEDC Women Honoring Women and was named in 2015 as one of the Women Who Shape Alabama. Auburn University named her as a Distinguished Engineer in 2017.

Having served on many non-profit boards, she is currently on the board of the National Museum of the Mighty Eighth Air Force. She was also one of the founders of the nonprofit organization AstraFemina for STEM outreach for girls. Recently, she authored two books Air Born about her father, a WWII B-17 pilot and POW, and herself. Her husband is retired Alabama 23rd Judicial Circuit District Judge Dick Richardson and they have two grown children and four grandchildren.

Panel Sessions

Survive the Lunar Night

Monday 1:00 pm – 2:30 pm

This highly interactive panel invites the audience to steer a conversation focused on how future lunar surface missions can endure the challenges of the long, frigid lunar night. Rather than delivering formal presentations, panelists will respond directly to participant questions, exploring topics such as mission-specific thermal needs, key performance metrics, gaps in current technologies, and opportunities for new approaches.

Drawing from experience across mission design, technology development, and environmental modeling, panelists will help unpack how NASA evaluates and prioritizes thermal concepts for long-duration surface operations. Audience engagement will shape the direction of the discussion, providing a space to explore ideas, challenge assumptions, and highlight promising pathways for surviving multiple lunar night cycles—and potentially extending these approaches to other future surface missions.

Thermal Technology

Tuesday 9:30 am – 11:00 am

Managing the thermal environment on the lunar and Martian surfaces is a growing challenge as mission concepts expand and surface systems become more diverse. With changing temperatures, dust, gravity, and operational profiles, no single thermal solution fits every situation. A wide range of heat rejection and heat transport technologies—from two-phase systems and heat pipes to radiators, thermal storage, and innovative hybrid ideas—are being explored to meet these evolving needs.

In this interactive panel, experts from across the thermal community will take audience questions, share perspectives on emerging approaches, and discuss how environmental and operational factors shape technology choices. The session is designed to help participants understand the broader trade space and gather practical insights that support more robust, adaptable thermal solutions for future lunar and Martian missions.

Cryogenic Fluid Management

Wednesday 3:30 pm – 5:00 pm

Cryogenic fluid management remains one of NASA's most technically demanding challenges, driven by the need to store, transfer, and utilize extremely low-temperature propellants in environments that impose severe thermal loads. In this interactive panel, experts across spacecraft thermal control, cryogenic systems, and mission architecture will engage directly with audience questions, encouraging participants to help shape the discussion around the thermal constraints that govern system performance and reliability.

Attendees will gain insight into current thermal limitations, emerging technologies for cryogenic thermal management, and the design trades necessary to balance thermal robustness with mass, power, and operational flexibility. Through active audience participation, the session will provide a dynamic forum for exploring how these thermal constraints influence future mission design, subsystem development, and foundational research—offering a deeper collective understanding of the challenges and opportunities ahead.

Nuclear Propulsion

Thursday 9:30 am – 11:00 am

Nuclear propulsion systems show dramatic improvements in deep-space mission capability, but they also introduce significant thermal constraints that shape every aspect of their design and operation. This panel gathers specialists across NASA centers to examine how reactor heat generation, waste-heat rejection, structural temperature limits, and transient thermal environments influence both nuclear thermal propulsion (NTP) and nuclear electric propulsion (NEP) architectures.

This session will be highly interactive, with panelists responding directly to audience questions to explore topics such as, the thermal bottlenecks that drive nuclear propulsion systems and emerging technologies and analysis techniques to enable future crewed and robotic missions that depend on high-performance nuclear propulsion.

Technical Courses

Heat Pipes – ACT

Monday 9:30 am – 11:30 am

This Heat Pipe Short Course by Advanced Cooling Technologies, Inc. (ACT) will provide a broad overview of heat pipes for Spacecraft Thermal Control, including operating principles, limitations, design considerations, applications, and testing.

After discussing the basics, the course will discuss special variants of heat pipes, thermal control with heat pipes, and high temperature heat pipes.

Form Factors, Grey Bodies, and Radiation Conductances

Tuesday 1:00 pm – 5:00 pm

Students are introduced to basic thermal radiation analysis in undergraduate heat transfer courses but little focus is given to techniques employed for thermal radiation analysis in the real world. This theory-based short course provides an introduction to thermal radiation form factors, grey bodies and radiation conductances. Various techniques of form factor calculation are explored and demonstrated. Radiation interchange using, both, monte carlo and radiosity techniques is demonstrated.

MSFC Thermal Testing Lessons Learned

Wednesday 9:30 am – 11:30 am

MSFC thermal engineers will be presenting lessons learned while preparing and conducting thermal tests. This course will cover practical real-world examples of thermal chamber and vacuum chamber testing from engineering development units to system level testing on flight hardware. Special topics include large scale test preparation, requirement tailoring from parent documents, and cryogenic development testing.

Meshed Lunar Terrain Thermal Model-Building

Wednesday 1:00 pm – 5:00 pm

This short course is a hands-on Thermal Desktop model-building demonstration. The demonstration will start with the selection of a latitude and longitude of a location on the lunar south pole and end with a complete meshed terrain model of the location in Thermal Desktop. The steps will include using MATLAB to process lunar digital elevation models and JPL horizons ephemeris data, using MeshLab to mesh processed point cloud, and using Thermal Desktop to set up the complete thermal model. Terrain detail is selectively preserved near the central location of interest and at horizon locations. The tools and methods presented in this course were developed by the Lunar and Mars Environments Analysis Team and are currently being used to assess thermal environments for HLS, Moon Base, and VIPER.

Vendors

Vendor Booths will be located in the main lobby outside of the ballroom

Advanced Cooling Technologies

Momentive Performance Materials

Aerospace Fabrication &
Materials, LLC

NASA MSFC - GFSSP

Ansys, part of Synopsys

Quantum Qool

Comsol, Inc.

Radian Systems

Kairo-Technologies

Redwire

Mainstream Eng Corp

SoftInWay, Inc.

MathWorks

TAKANIKI Communications LLC

Maya HTT

ThermAvant Technologies

MICROSANJ

Web Industries, Inc.



Vendor Information

Posters

Tuesday September 1st

3:30 pm - 5:00 pm

Particle-Informed Adaptive MHD Approach for Electromagnetic Thermal Mitigation in Hypersonic Reentry Plasma

Ms. Priscila Fassel

Influence of Sintered Stainless-Steel Wick Structure on the Performance of a Pressurized Water-Charged Flat Loop Heat Pipe at Intermediate and High Operating Temperatures

Dr. Pawel Szymanski

Analysis of In-Flight Spectrally Resolved Stagnation Line Radiation Measurements from the KREPE 2 Reentry Capsules

Mr. William Young

Multiscale Modeling of Fracture Strength in Fibrous Thermal Protection System Materials

Dr. Jaehyun Cho

Design and Development of a Standardized Residual Gas Analyzer set up for In-Situ Resource Utilization Testbeds

Ms. Samantha Daigle

A Low-Gravity Thermal Testbed Platform for the LEO and Lunar Economy

Professor Alvaro Romero-Calvo

Pump Unit with Long-life for Space Environments (PULSE) Journal Bearing Test Stand

Mr. AJ Mastropietro

Phase Identification and Quantification in Microgravity Flow Boiling Images: A Novel CNN-Based Framework Optimized via Image Segregation

Professor V.S. Devahdhanush

Experimental Evaluation of Parameter Optimized Additively Manufactured Cold Plate

Zane L. Oligee

Acknowledgements

Chair

Jodi Turk

Planning Committee

Callie Mckelvey

Claire Silaire

Elijah Stewart

Faiyaj Khan

Francee Logston

Heather Grimes

Jack Parr

Jerry Wells

Kacy Vanden Bergh

Kayla Daniel

Kenton Roberts

Latham Speasmaker

Lisa Erickson

Mackenzie Byrnes

Meaghan Veselis

Michael Baldwin

Parker Weide

Sarah Oden

Sarah Stewart

Savanna Lyles

Stephanie Babiak

William Birmingham

NESC Fellows

Joseph Olejniczak

Monica Guzik

Steve Rickman

Guest Speakers

Jan Davis

Phillip Allen

Paul Gradl

Leonardo Barreda

Kurt Polzin

Special Thanks

Protective Services (Paul Walker and Hollie Hemphill Smith), MSFC Printing Office, MSFC Legal Team, Tours Coordinators, Paper Session Chairs, and TFAWS Steering Committee

Marshall Space Flight Center



For more than 65 years, the unique capabilities and expertise at NASA's Marshall Space Flight Center have been used to design and build the engines, vehicles, space systems, instruments and science payloads that make possible unprecedented missions of science and discovery throughout our solar system. Marshall's rich history of engineering excellence enabled the development of the Saturn Program that put man on the moon, developed new rocket engines and tanks for the Space Shuttle Program, built sections of the International Space Station and now manages all the science work of the astronauts aboard the ISS from a 24/7 Payload Operations and Integration Center. As one of NASA's largest field centers with nearly 6,000 civil service and contractor employees, Marshall Space Flight Center is leading the development of the Space Launch System, the most powerful rocket ever designed to carry human explorers, their equipment and science payloads deeper into space than ever before.

Huntsville Destination Guide



Huntsville Tour Guide



Welcome to Rocket City

Downtown Huntsville

HUNTSVILLE

Huntsville/Madison County Convention & Visitors Bureau

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Points of Interest

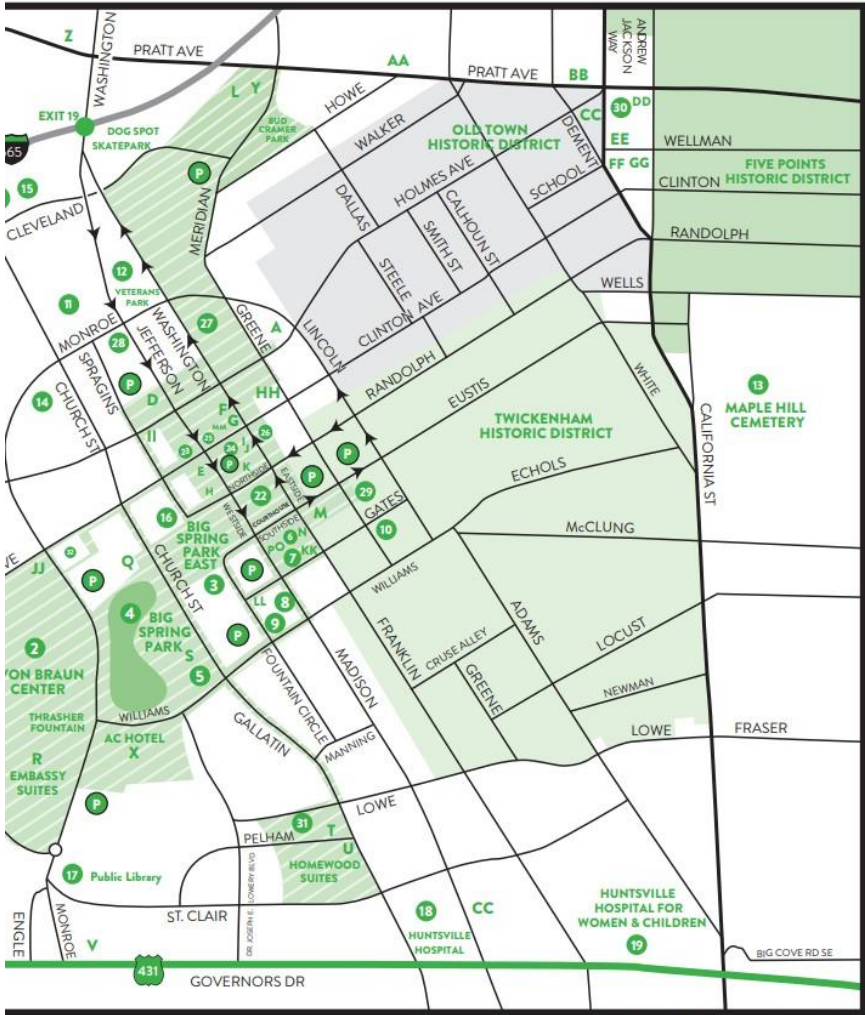
- | | |
|--------------------------------------|---|
| 1 Visitor Center (Exit 19) | 17 Huntsville Public Library |
| 2 Von Braun Center | 18 Huntsville Hospital |
| 3 City Hall | 19 Huntsville Hospital for Women & Children |
| 4 Big Spring International Park | 20 Lowe Mill ARTS & Entertainment |
| 5 Huntsville Museum of Art | 21 Department of Motor Vehicles |
| 6 Harrison Brothers Hardware | 22 Madison County Courthouse |
| 7 Alabama Constitution Hall Park | 23 The KaffeeKlatsch |
| 8 EarlyWorks Children's Museum | 24 The Garage at Clinton Row |
| 9 Bicentennial Park | 25 The Clinton Row Project |
| 10 Weeden House Museum | 26 Bad Axe Huntsville |
| 11 Historic Huntsville Depot | 27 Lewter Hardware |
| 12 Huntsville Veterans Memorial Park | 28 Railroad Station Antiques |
| 13 Maple Hill Cemetery | 29 Greene Street Market (seasonal) |
| 14 Huntsville/Madison County Chamber | 30 Star Market |
| 15 Orbit Shuttle Station | 31 Publix Super Market |
| 16 Huntsville Utilities | 32 Hampton Inn & Suites Huntsville Downtown |

Restaurants

- | | |
|--|-------------------------------------|
| A Old Town Beer Exchange | Mei Wei Asian Bistro |
| B Canadian Bakin' | Taco Mama |
| C SideTracks | Twickenham Treats |
| D Oshi Poke Bowl & Sushi | Ruth's Chris Steak House |
| Purveyor Huntsville | Stanlio's Sub Villa |
| The Moon Bakeshop | Chef Will The Palate |
| Melt | Happy Tummy |
| E Phat Sammy's | Puffs Buns International Café |
| F Humphrey's Bar & Grill | The Veggie |
| G The Bottle | Dragon's Forge Cafe |
| H Revealist, Baker & Able in 106 Jefferson | BarVista in A/C Hotel |
| I Honest Coffee Roasters | Furniture Factory Bar & Grill |
| J The Martin Bar & Bistro | Dallas Mill Deli |
| K Domaine South | Big Ed's Pizza |
| Big Oh's | Olde Towne Coffee Shop |
| The Poppy & Parliament | CC Tenders |
| L Rocket Republic | DD 1892 East |
| M Green Bus Brewing | EE Ted's Bar-B-Q |
| N Commerce Kitchen | FF Thai Garden |
| Sam & Greg's Pizzeria | GG Walker's Market |
| O Voodoo Lounge (downstairs) | HH SP |
| P Cotton Row | II La Esquina Cocina |
| Q The Cozy Cow | Moe's Original Bar B Que |
| CO/OP Community Table + Bar in | Stella's Elvix Lounge |
| Embassy Suites | The Standard Social Market |
| S Pane e Vino at Huntsville Museum of Art | JJ Rhythm On Monroe |
| T Another Broken Egg | KK Piper & Leaf x Constitution Park |
| Cajun Steamer Bar & Grill | LL Mazza's |
| | MM Catcomb 435 Speakeasy |

 Arts & Entertainment Districts - Noon - 11 pm Daily
(Quigley, Meridian, SR Butler Green & Stovehouse)





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THERMAL & FLUIDS
ANALYSIS WORKSHOP
Marshall Space Flight Center 2026

