

# Thermal Protection Systems for Space Applications



Aug. 4 & 5, 2026 • Gilruth Center, Houston, Texas



## Day 1 Course Agenda | Aug. 4, 2026

Time	Module/Topic	Instructor(s)	Location	Duration
8 – 9 a.m.	Check In	-		60 min.
9 – 9:20 a.m.	Intro to Ceramics for TPS	Nate Olson	Inspiration Room (206)	20 min.
9:20 – 10:20 a.m.	Materials for Reusable TPS	Jay Feldman	Inspiration Room (206)	60 min.
10:20 – 10:30 a.m.	Break	-		10 min.
10:30 – 11:30 a.m.	Manufacturing Reusable TPS	Andrew Ankeny	Inspiration Room (206)	60 min.
11:30 a.m. – 12:15 p.m.	Lunch	-	Lone Star Room (216)	45 min.
12:15 – 1 p.m.	Materials Characterization	Vishnu Oruganti, Jay Feldman	Inspiration Room (206)	45 min.
1 – 1:45 p.m.	High Enthalpy Testing	Adam Sidor	Inspiration Room (206)	45 min.
1:45 – 2 p.m.	Break	-		15 min.
2 – 3 p.m.	Thermo-Structural Testing	Craig Stephens	Inspiration Room (206)	60 min.
3 – 4 p.m.	Developing Material to TRL 6: HEEET	Don Ellerby	Inspiration Room (206)	60 min.
4 – 4:30 p.m.	Materials & Testing Open Discussion	All Instructors	Inspiration Room (206)	30 min.
4:30 – 6:30 p.m.	Happy Hour	-		120 min.

### Course Instructors

- Andrew Ankeny, Amentum (Thermal Protection System Facility)
- Stan Bouslog, NASA JSC
- Don Ellerby, NASA ARC
- Jay Feldman, NASA ARC
- David Glass, NASA LaRC
- Nate Olson, NASA JSC
- Vishnu Oruganti, Amentum (NASA JSC)
- Alvaro Rodriguez
- Adam Sidor, NASA JSC
- Craig Stephens, NASA AFRC

[ceramics.org/course/thermal-protection-systems-for-space-applications](https://ceramics.org/course/thermal-protection-systems-for-space-applications)



# Thermal Protection Systems for Space Applications

## Day 2 Course Agenda | Aug. 5, 2026

Time	Module/Topic	Instructor(s)	Location	Duration
8 – 8:30 a.m.	Breakfast	-	Lone Star Room (216)	30 min.
8:30 – 9:30 a.m.	TPS Flight Certification & NASA TPS Standard	Stan Bouslog	Inspiration Room (206)	60 min.
9:30 – 10:30 a.m.	Shuttle TPS Lessons Learned	Alvaro Rodriguez	Inspiration Room (206)	60 min.
10:30 – 10:45 a.m.	Break	-		15 min.
10:45 – 11:45 a.m.	Ceramic Matrix Composites (CMCs)	David Glass	Inspiration Room (206)	60 min.
11:45 a.m. – 12:15 p.m.	Future Challenges in Ceramics for TPS	Nate Olson	Inspiration Room (206)	30 min.
12:15 – 12:45 p.m.	Lunch	-	Lone Star Room (216)	30 min.
12:45 – 4 p.m.	Tours: MCC, SVMF, RHTF		Multiple	~3 hours

### Tour Locations

- Mission Control Center (MCC)
- Space Vehicle Mockup Facility (SVMF)
- Radiant Heat Test Facility (RHTF)


### Looking to grab a bite?


Scan the QR code to explore local dining options in the city of Webster near Gilruth Center!



### Room Locations

#### *Gilruth Center, Houston, Texas*

 The **Lone Star Room** (Room 216) is located on the second floor.

 The **Inspiration Room** (Room 206) is located off the main hall on the second floor.

