



# 10th International Workshop on Radiation of High Temperature Gases for Space Missions

## Monday 9 September 2024

**High speed facilities, flight testing and propulsion - Oxford e-Research Centre (16:10 - 17:40)**

time	[id] title	presenter
16:10	[141] Optical Emission Spectroscopy Measurements of Nitric Oxide In The Shock Layer Produced In a Hypersonic Shock Tunnel	DANIEL, Kyle
16:35	[160] Modeling of Hypersonic Flow Over a Cylinder in a Reflected Shock Tunnel Facility	Mr THIRANI, Shubham
17:00	[134] VACUUM ULTRAVIOLET EMISSION SPECTROSCOPY IN SHOCK TUBE FLOWS	BUQUET, Mailylys

# Tuesday 10 September 2024

## High speed facilities, flight testing and propulsion - Oxford e-Research Centre (16:30 - 17:45)

time	[id] title	presenter
16:30	[156] Implementation of Rapidly-Scanned, Infrared Laser Absorption Diagnostics in NASA Electric Arc Shock Tube Experiments	Prof. HANSON, Ronald
16:55	[133] Ultraviolet Laser Absorption Studies of the Vibrational Relaxation and Kinetics of High-Temperature Air	STREICHER, Jesse

## Wednesday 11 September 2024

### High speed facilities, flight testing and propulsion - Oxford e-Research Centre (15:55 - 17:25)

time	[id] title	presenter
15:55	[158] Laser-Based Characterization of Reflected Shock Tunnel Freestream Velocity and Multi-Species Thermal Nonequilibrium with Comparison to Modeling	JANS, Elijah
16:15	[165] Radiation of contaminant species in the High Enthalpy Shock Tunnel Göttingen (HEG)	Dr SURUJHLAL, Divek
16:35	[154] Numerical Study on Hypersonic Boundary Layer Behind a Propagating Shock Wave in an Expansion Tube	SAKAMOTO, Hiroki
16:55	[168] Uncertainty analysis of optical emission spectroscopy measurements in the Electric Arc Shock Tube	FAGNANI, Andrea

# Thursday 12 September 2024

## High speed facilities, flight testing and propulsion - Oxford e-Research Centre (11:10 - 12:25)

time	[id] title	presenter
11:10	[175] A Semi-Universal Spectroscopy System for Hypersonic Impulse Facilities	LOCK, Samuel
11:35	[173] Validation and Characterisation of CO <sub>2</sub> Recombination in Expanding Flows for Low Velocity, High Density Mars Entry Conditions	SINGH, Mragank
12:00	[181] Test trials of the ESTHER Shock Tube	LINO DA SILVA, Mario

## High speed facilities, flight testing and propulsion - Oxford e-Research Centre (15:45 - 17:05)

time	[id] title	presenter
15:45	[152] QUALIFICATION OF THE NASA AMES EAST LOW DENSITY SHOCK TUBE	CRUDEN, Brett
16:15	[135] ULTRAVIOLET LASER ABSORPTION SPECTROSCOPY IN SHOCK TUBE FLOWS	BUQUET, Mailys
16:40	[188] Emission spectroscopy of ablative heat shield shock layers for earth entry in the T6 free piston driven shock tube	Mr KENNEDY, Aaron