



# ATD3 Workshop 2022

## Thursday, 27 October 2022

### Modelling, Simulations & Tools (14:15 - 15:55)

time	[id] title	presenter
14:15	[131] CFD based interpolation of drag and heat rates of different objects re-entering the earth atmosphere in a prescribed motion and approximation models for drag and heat rates of random tumbling objects in the transitional regime - Part1	VAN HAUWAERT, Pierre
14:40	[132] CFD based interpolation of drag and heat rates of different objects re-entering the earth atmosphere in a prescribed motion and approximation models for drag and heat rates of random tumbling objects in the transitional regime - part2	VAN HAUWAERT, Pierre
15:05	[125] Data-Driven Approach for the Prediction of Aerothermal Loads during Destructive Atmospheric Re-entry	Ms GRAHAM, Julie
15:30	[129] Coupling Methodology for SU2-NEMO and PATO Solvers	ÇELİK, Mutlu

### Modelling, Simulations & Tools (16:20 - 17:10)

time	[id] title	presenter
16:20	[115] Progress on the Conservative Cut-Cell Immersed Boundary Solver for Accurate Simulation of Atmospheric Entry Flows with Gas-Surface Interactions	BASKAYA, Ata Onur
16:45	[118] Coupled fluid / thermal computation of ablating graphite material using nonequilibrium chemistry during atmospheric entry	LORIDAN, Vivien

# Friday, 28 October 2022

## Modelling, Simulations & Tools (09:10 - 09:35)

time	[id] title	presenter
09:10	[130] Overview of the recent studies performed at CEA-CESTA on rarefied flow simulation and modelling	Dr TOUSSAINT, Damien