

Thursday 26 october		
Multimedia Library (35 people)		
Time	ATD3	Presenter(s)
9:00 - 9:20	ATD3 - S1	Introduction of the ATD3 workshop
9:20 - 9:40		Impact of Plasma Wind Tunnel testing on Destructive Entry calculations for Basic Materials of Interest
9:40 - 10:00		Demisable Material Testing in the VKI Plasmatron : Numerical Study of the ATD3 "Test Case 1"
10:00 - 10:20		Rtech contribution to ATD3 workshop
10:20 - 10:40		Assessment of Demise Processes for Different Composite Laminates in Uncontrolled Atmospheric Entries
10:40 - 11:00		TsaGi flate plate in hypersonic wind tunnel
11:00 - 11:30		
11:30 - 11:50	ATD3 - S2	Aerodynamic coefficients computed for a generic sharp-edged re-entry configuration
11:50 - 12:10		Aerothermodynamic simulations of Various ESA ATD3 Test Geometries Using Panel Methods
12:10 - 12:30		Direct simulation Monte Carlo of a generic sharp-edge re-entry vehicle in a wind tunnel
12:30 - 12:50		Aerothermodynamic computation by ESA for the ATD3 workshop
13:00 - 14:00		
14:00 - 14:20	ATD3 - S3	Analysis of the Cargo Vehicle Benchmark using the Direct Simulation Monte Carlo Method and Surface Inclination Methods
14:20 - 14:40		Forces on to interacting spheres in hypersonic flow
14:40 - 15:00		NSMB flow solver applied to selected ATD3 test cases
15:00 - 15:20		Numerical rebuilding of high speed flow solver geometries representative of fragmented objects entering the earth atmosphere
15:30 - 16:00		
16:00 - 16:20	ATD3 - S4	ATD3 AeroThermoDynamics Design for Demise Workshop - Bertin Technologies CPS-C Results
16:20 - 16:40		Numerical simulation of hypersonic flows during atmospheric entry PICLas
16:40 - 17:00		Contribution for aerothermodynamic evaluations for generic debris reentry
17:00 - 17:20		Exploring the effects of Surface Degradation and Internal Phase Transformations on the Demise Behaviour of Metallic Materials in Uncontrolled Atmospheric Entries
17:20 - 17:40		Space debris atmospheric entry prediction with spacecraft-oriented tools
17:40 - 18:00		Ariane Group and CNES R&T studies about launcher upper-stages re-entry
18:00 - 18:20	Wrap-up	Wrap-up