LIST OF PUBLICATIONS OF O. CHAZOT

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Contributions to books


Archival Journals


**Conference Papers**

**1999**


**2000**


2001


2002


2003


2004


2005


2006

Chazot, O.: Experimental studies on hypersonic stagnation point chemical environment *RTO AVT 142*, Experiment, modeling and simulation of gas-surface interactions for reactive flows in hypersonic flights, Rhode-St-Genèse, Belgium, February 6-10, 2006.


2007

Demixing Analysis of CO2 Flows Inside ICPs
45th AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada, USA, January 8-11, 2007
AIAA-2007-1356 MP

PANESI, M.; THÖMEL, J.; RINI, P.; CHAZOT, O.: Numerical Analysis of Physico-Chemical State of the
Plasma in the Test Chamber of the VKI Plasmatron Facility for Earth and Mars Testing

investigation of the non equilibrium shock-layer around the EXPERT vehicle.
18th AIAA Computational Fluid Dynamics Conference, Miami, USA, June 25-28, 2007

PANESI, M.; MAGIN, T.; BOURDON, A.; BULTEL, A.; BARBANTE, P.; CHAZOT, O.: Simulation of
Air plasma in Collisional-Radiative Nonequilibrium in expanding and compressing flows

THÖMEL, J.; TIRTEY, S.; FLETCHER, D.G.; CHAZOT, O.: Progress in the development of a catalytic
transition flight experiment
2nd European Conference for Aero-Space Sciences, Brussels, Belgium, July 1-6 2007, Paper 2-10-05
2007-44

THÖMEL, J.; LUKKIEN J.J.; CHAZOT, O.: A multiscale approach for building a mechanism based
catalysis model for high enthalpy CO2 flow.
39th AIAA Thermophysics Conference, Miami, USA, June 25-28 2007

PANESI, M.; LANI, A.; MAGIN, T.E.; DECONINCK, H.; CHAZOT, O.: Non equilibrium analysis of
EXPERT In" 2nd European Conference for Aero-Space Sciences", Riethmuller, M.L., ed., von Karman

KRASSILCHIKOFF, H.; CHAZOT, O.; THÖMEL, J.: Procedure for the determination of cold copper
recombination efficiency
In" 2nd European Conference for Aero-Space Sciences", Riethmuller, M.L., ed., von Karman Institute for

ASMA, C.O.; PARIS, S.; TIRTEY, S.; THÖMEL, J.; CHAZOT, O.: An overview of re-entry
aerothermodynamics investigation at the von Karman Institute – part I

2008

PANESI, M.; MAGIN, T.; BOURDON, A.; BULTEL, A.; CHAZOT, O.: Analysis of the FIRE II flight
experiment by means of a collisional radiative model


2009


Thoemel J. and Chazot, Surface Catalysis of Rough Surfaces, AIAA-2009-3931, June 2009

2010


2011


VILLEDIEU, N.; PANERAI, F.; CHAZOT, O.; MAGIN, T.E.: Uncertainty quantification for gas-surface interaction in plasmatron facility. 7th European Symposium on Aerothermodynamics, Brugge, Belgium, May 9-12, 2011, ESA.


CHAZOT, O.; PANERAI, F.; VAN DER HAEGEN, V.: Aerothermochemistry testing for lifting reentry vehicles. 7th European Symposium on Aerothermodynamics, Brugge, Belgium, May 9-12, 2011, ESA.


GROSSIR, G.; PARIS, S.; CHAZOT, O.; RAMBAUD, P.: Prediction of the critical distributed roughness height inducing transition on the Expert vehicle. 7th European Symposium on Aerothermodynamics, Brugge, Belgium, May 9-12, 2011, ESA.


MASUTTI, D.; GUNAYDINOGLU, E.; CHAZOT, O.: Surface pressure measurements on a flat plate and a 7deg half-cone at Mach 6. 7th European Symposium on Aerothermodynamics, Brugge, Belgium, May 9-12, 2011, ESA.
BENSASSI, K.; LANI, A.; LICO, A.; RAMBAUD, P.; CHAZOT, O.: Unsteady simulation of hypersonic flow over a heat probe in ground test conditions. 7th European Symposium on Aerothermodynamics, Brugge, Belgium, May 9-12, 2011, ESA.

CHAZOT, O.; PANERAI, F.; MAROTTA, M.: Ground testing for GSI database, what do we determine? 7th European Symposium on Aerothermodynamics, Brugge, Belgium, May 9-12, 2011, ESA.


MUYLAERT, J.; RAMBAUD, P.; PARIS, S.; CHAZOT, O.: An overview of the activities of the von Karman Institute for the aerothermodynamic analysis of the intermediate eXperimental vehicle (IXV), Eucass 2011, 4th European Conference for Aerospace Sciences, Saint-Petersburg, Russia, July 4-8, 2011.


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SAKRAKER, I. & CHAZOT, O.: In-flight experiment design and ground testing for TPS development
7th European Workshop on Thermal Protection Systems and Hot Structures, April 8-10, 2013, Noordwijk, The Netherlands, VKI RP 2013-20

21st AIAA CFD Conference, San Diego, USA, June 24-27, 2013,

EUCASS 2013, 5th European Conference on Aeronautics and Space Sciences, Munich, Germany, July 1-5, 2013

VILAEGUT, A. & CHAZOT, O.: Off-stagnation point testing in plasma facility
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CIPULLO, A.; HELBER, B.; PANERAI, F.; CHAZOT, O.: Experimental characterization of the free-stream plasma flow produced by the VKI plasmatron facility using optical emission spectroscopy RTO-AVT-199
"Specialists Meeting on Catalytic Gas Surface Interactions", October 2012, Rhode Saint Genèse, Belgium,

SAKRAKER, I.; CHAZOT, O.; ASMA, C.O.: In-flight experiment design and ground testing for re-entry CubeSat RTO-AVT-199 "Specialists Meeting on Catalytic Gas Surface Interactions", October 2012, Rhode Saint Genèse, Belgium,


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GROSSIR, G.; PINNA, F.; BONUCCI, G.; REGERT, T.; RAMBAUD, P.; CHAZOT, O.: Hypersonic boundary layer transition on a 7 degree half-angle cone at Mach 10

2015


SAKRAKER, I.; HELBER, B.; CHAZOT, O.: Experimental characterization of Cork based thermal protection material PS5 ESA 8th European Symposium on Aerothermodynamics for Space Vehicles, March 2-4, 2015, Lisbon, Portugal


DEL VAL BENITEZ, A.; MAGIN, T.E.; CHAZOT, O.: Characterization of ground testing conditions in high enthalpy and plasma wind tunnels for aerospace missions ESA 8th European Symposium on Aerothermodynamics for Space Vehicles, March 2-4, 2015, Lisbon, Portugal


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2016

VILADEVUT, A.; DURAND, J.-E.; CHAZOT, O.: Framework definition for the post-flight analysis of the IXV catalytic experiment 8th European Workshop on TPS and Hot Structures, ESA/ESTEC, Noordwijk, the Netherlands, April 2016


CHAZOT O., Introduction to Ground Testing Facilities, VKI LS 2014 – 2018


**Course notes**

Chazot, O.: Guidelines for laboratories on advanced measurement techniques for aeronautics. VKI CN 188.

Chazot, O.: Plasma wind tunnel design, operation and applications. VKI CN 210

**Technical notes**


**Internal notes**


Chazot, O.: Practical implementation of LDV measurements for plasma flow characterization. October 1999, 12 pgs. VKI IN 120.

Chazot, O.: Surface pressure measurements, numerical calculations and flow visualizations for the study of the flowfield topology in an ICP torch. January 2000, 12 pgs. VKI IN 122.