

UQ-UPSaclay Week

3rd Franco Australian Symposium on high-enthalpy and reacting flows

Thursday 25 November 2021

Moderator

Dr Chris James, ARC DECRA Research Fellow, School of Mechanical and Mining Engineering, UQ

5-5.15pm AEST

8-8.15am CET

UQ research strengths and capabilities overview

Professor Richard Morgan, Professor, Centre for Hypersonics, UQ

5.15-5.30pm AEST

8.15-8.30am CET

CentraleSupélec research strengths and capabilities overview

Professor Christophe Laux, CentraleSupélec

5.30-6.30pm AEST

8.30-9.30am CET

Workshop 1 - Planetary aero dynamics / entry

5.30-5.37pm AEST

8.30-8.37am CET

Measurements and modeling of VUV molecular emission bands

Associate Professor Sean McGuire, Senior Lecturer, CentraleSupélec

5.37-5.44pm AEST

8.37-8.44am CET

Modelling of multi-physics hypersonic flows with Eilmer

Dr Rowan Gollan, Senior Lecturer, School of Mechanical and Mining Engineering, Faculty of Engineering, Architecture and Information Technology, UQ

Dr Peter Jacobs, Honorary Associate Professor, School of Mechanical and Mining Engineering, Faculty of Engineering, Architecture and Information Technology, UQ

5.44-5.51pm AEST

8.44-8.51am CET

Non-equilibrium radiation modelling

Pierre Mariotto, PhD Candidate, CentraleSupélec

Marie-Yvonne Perrin, Research Director, CNRS, EM2C Laboratory, CentraleSupélec

5.51-5.58pm AEST

8.51-8.58am CET

MHD aerobraking for Atmospheric Entry

Dr David Gildfind, Senior Lecturer, School of Mechanical and Mining Engineering, Faculty of Engineering, Architecture and Information Technology, UQ

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5.58-6.05pm AEST
8.58-9.05am CET

Experimental simulation of non-equilibrium giant planet entry conditions

Dr Chris James, ARC DECRA Research Fellow, School of Mechanical and Mining Engineering, Faculty of Engineering, Architecture and Information Technology, UQ

6.05-6.12pm AEST
9.05-9.12am CET

Nonequilibrium radiation measurements in a recombining air/argon plasma

Ulysse Dubuet, PhD Candidate, CentraleSupélec

6.12-6.19pm AEST
9.12-9.19am CET

Nonequilibrium radiation measurements in a recombining CO₂ plasma

Corentin Grimaldi, PhD Candidate, CentraleSupélec

6.19-6.30pm AEST
9.19-9.30am CET

Discussion

6.30-7.30pm AEST
9.30-10.30am CET

Workshop 2 – Reacting and ionised flows

6.30-6.37pm AEST
9.30-9.37am CET

Supersonic combustion research and turbulence studies in high-enthalpy flows

Associate Professor Anand Veeraraqavan, School of Mechanical and Mining Engineering, Faculty of Engineering, Architecture and Information Technology, UQ

6.37-6.44pm AEST
9.37-9.44am CET

Plasma-assisted stabilisation of lean premixed flames

Victorien Blanchard, PhD candidate, CentraleSupélec, CNRS

6.44-6.51pm AEST
9.44-9.51am CET

Simulation of Supersonic Combustion and Plasma Instabilities

Professor Vincent Wheatley, School of Mechanical and Mining Engineering, Faculty of Engineering, Architecture and Information Technology, UQ

6.51-6.58pm AEST
9.51-9.58am CET

Resistive MHD for modelling plasma

Dr Julien Labaune, Engineer, The French Aerospace Lab-ONERA

6.58-7.05pm AEST
9.58-10.05am CET

Pulsed discharges for surface bio-decontamination

Associate Professor Mike Kirkpatrick, CentraleSupélec



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Dr Carolyn Jacobs, Lecturer, School of Mechanical and Mining Engineering, Faculty of Engineering, Architecture and Information Technology, UQ

7.05-7.12pm AEST
10.05-10.12am CET

CO₂ dissociation by nanosecond pulsed discharges
Jean Maillard, PhD candidate, CentraleSupélec

7.12-7.30pm AEST
10.12-10.30am CET

Discussion and close