

8th International Workshop on Radiation of High Temperature Gases for Space Missions



Monday, 25 March 2019 - Friday, 29 March 2019

Campus Puerta de Toledo of the Universidad Carlos III, Madrid, Spain

Scientific Programme

Scientific and technical papers on:
Non-Equilibrium Chemical Kinetics
Hypersonic Flow
Plasma Emission and Absorption
Numerical Simulation of radiative heat transfer
Instruments, experimental techniques and facilities
Flight and Base Flow Experiments.
Atmospheric entry observations

Invited papers of general interest for RHTG

Test-cases, which are organised in three topics:
Radiation emission and transfer databases and modelling

Re-building of selected radiative emission and absorption shock-tube experiments

ExoMars descent module base flow test-cases for non-equilibrium flow
and radiation emission and absorption calculations

Preparation of future test-cases:
Identification of suitable experimental results, relevant literature
data and previous re-building activities

Collisional Radiative Modelling

Numerical Simulations

Facilities

Shock Tubes

Measurement Techniques

Generic

Meteorites

Workshop Test Cases