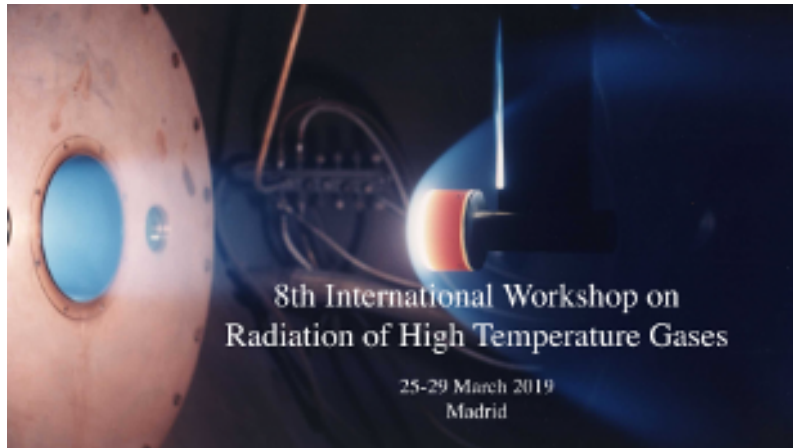


# 8th International Workshop on Radiation of High Temperature Gases for Space Missions



**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**