Save the date! International CNRS Thematic School on Radiative Transfer in Semi-Transparent Media

Hendaye, France (3-9 October 2026)

This autumn Thematic School will offer general lectures on radiation transfer in semi-transparent media, covering gases, plasmas, particle suspensions as well as dense and porous materials. Numerical methodologies to solve the radiative transfer equation will be tackled. The program aims to offer basic and advanced courses that provide doctoral students, researchers and engineers from academic institutions and private companies with robust methodologies enabling them to meet major contemporary industrial challenges where radiative transfers are inevitable. This includes both the reliable decarbonisation of high-temperature industrial processes as well as the reusability of spacecraft subjected to hypersonic flight regimes.

Lectures

Basics of thermal radiation
Prof. F. Enguehard, Université de Poitiers, ***France***

Methods for solving the RTE
Prof. P. Coelho, Instituto Superior Técnico, ***Portugal***

Physics of gas radiation
Dr A. Soufiani, CNRS, ***France***

Approximate gas radiation models
Prof. F. Liu, NRCC, ***Canada***

Radiation scattering in particulate media
Prof. R. Carminati, ESPCI Paris - PSL, ***France***

Near-field radiative transfer
Prof. M. Francoeur, University of Utah, ***USA***

Radiation physics of solids
Dr B. Rousseau, CNRS, ***France***

Identification of the rad. prop. of semi-transparent media
Prof. K. Daun, University of Waterloo, ***Canada***

A history of radiative transfer
Prof. P. Menguc, Ozyeğin University, ***Turkey***

Practical works

Advanced Monte Carlo methods : *Prof. R. Fournier, Univ. de Toulouse & Prof. M. El Hafi, IMT Mines Albi,* ***France***
Infrared thermography and spectroscopy : *Prof. G. Parent, Université de Lorraine,* ***France***
Modelling gases radiative properties : *Dr F. André, CNRS,* ***France***

And excursions in the “Pays Basque”!

Organisers/ contact persons :

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Registration fees*

Researchers, engineers, Ph-D students from CNRS	PhD students	Ass. professors, professors, engineers	Participants from private institutions, members of the ICP	Participants from private institutions, outside the ICP
0 €	300 €	500 €	700 €	1000 €

* Training + full accommodation on a double room basis including catering for 5 or 7 days. ICP : TAMARYS Industrial Partners Club

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