



Eurotherm Conference No. 105: Computational Thermal Radiation in Participating Media V

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This volume of *Journal of Physics: Conference Series* is based on papers presented at the Eurotherm Conference 105: Computational Thermal Radiation in Participating Media V, which was held in Albi, France on 1-3 April 2015. This seminar was the fifth in a series after Nancy, France (Eurotherm Seminar 95, April 2012), Mons, Belgium (Eurotherm Seminar 73, April 2003), Poitiers, France (Eurotherm Seminar 78, April 2006) and Lisbon, Portugal (Eurotherm Seminar 83, April 2009).

Around 40 contributions were received during the conference preparation that have been submitted to oral presentations. A selection process based on two peer-reviews of the full papers finally resulted in the acceptance of 36 for oral presentations (including 2 plenary lectures). These 2 plenary lectures and 10 other papers have been selected for a special issue in a journal related to radiative heat transfer and will not be presented in this volume.

The conference was attended by almost 60 scientists from 15 different countries: Australia, Belgium, Canada, China, France, Germany, Poland, Portugal, Russia, Switzerland, The Netherlands, Sweden, Tunisia, Turkey and USA.

The 24 contributions presented in this volume relate to the following main topics:

- Radiative transfer in complex media
- Applications, combustion and high temperatures
- Inverse methods
- New developments for RTE solution
- Gas radiation modeling
- Particles, droplets and dispersed systems
- Monte Carlo methods
- Photoreactive processes
- Radiative transfer for medical applications
- Radiative transfer in planetary atmospheres and oceans
- Coupled heat transfer problems involving radiative effects
- Radiative transfer problems at micro - and nanoscales

The conference organizers gratefully acknowledge the members of the scientific committee and the experts who carried out the reviews of the papers, and the local organizing committee for their preparation of the conference. Also acknowledged are the support by the « investissements d'avenir and the labex Solstice », the Société Française de Thermique, ICHMT, the sponsorship of the Midi-Pyrénées Region, and the financial contributions of city of Albi.



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