

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

Mouna El-Hafi, Richard A Fournier, Denis Lemonnier, Paul Lybaert, Nevin Selcuk

▶ To cite this version:

Mouna El-Hafi, Richard A Fournier, Denis Lemonnier, Paul Lybaert, Nevin Selçuk. Eurotherm Conference No. 105: Computational Thermal Radiation in Participating Media V: Preface. Journal of Physics: Conference Series, 2016, 676 (1), art. 011001 - 3 p. 10.1088/1742-6596/676/1/011001 . hal-01706748

HAL Id: hal-01706748 https://imt-mines-albi.hal.science/hal-01706748

Submitted on 21 Jun 2018

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

PAPER • OPEN ACCESS

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

To cite this article: Mouna El Hafi et al 2016 J. Phys.: Conf. Ser. 676 011001

View the article online for updates and enhancements.

Related content

- <u>Eurotherm Conference No. 95:</u> <u>Computational Thermal Radiation in</u> <u>Participating Media IV</u> Pascal Boulet, David Lacroix, Denis Lemonnier et al.
- <u>Comparison of Monte Carlo simulations</u> with exact Maxwell solutions for polarized light scattering by multiple absorbing <u>spheres</u> Ansgar Hohmann, Florian Voit, Jan Schäfer et al.
- <u>On the Analytical Solution of the S_N</u> <u>Radiative Transport Equation in a Slab for</u> <u>a Space-dependent Albedo Coefficient</u> Rubem M F Vargas, Cynthia F Segatto and Marco Túllio Vilhena

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

Mouna EL Hafi, Richard Fournier, Denis Lemonnier, Paul Lybaert and Nevin Selçuk

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.

Conference Chairs

Mouna EL Hafi	Mines-Albi, France
Richard Fournier	Laplace, Université de Toulouse, France
D Lemonnier	Institut P', Poitiers, France
N Selçuk	Middle East Technical University, Ankara, Turkey
P Lybaert	Umons, Faculty of engineering, Belgium

International Scientific Committee

STU Gliwice, Poland
LEMTA, Nancy, France
Instituto Superior Tecnico, Lisboa, Portugal
IHT, Moscow, Russia
University of Texas, Austin, USA
Polytechnic University of New York, USA
Australian National University, Australia
Institute for Chemical Process and Environmental Technology, Canada
Harbin Inst. of Tech., China
Loughborough University, UK
Institute of Fluid Science, Tohoku, Japan
Ozye ğ n University, Istanbul, Turkey
NASA Goddard Institute, USA
University of California, USA
University of California, Los Angeles, USA
Ioffe Institute, St Petersburg, Russia
University of Campinas, Sao Paulo, Brazil
École Centrale, Paris, France
CETHIL INSA, Lyon, France
Brigham Young University, USA
Georgia Institute of Technology, USA
Huazhong University of Science and Technology, Wuhan, China

Eurotherm Conference 105: Computational Thermal Radiation in Participating Media VIOP PublishingJournal of Physics: Conference Series 676 (2016) 011001doi:10.1088/1742-6596/676/1/011001

Guest Editors

M. EL Hafi

Mines-Albi, France

mouna.elhafi@mines-albi.fr

R. Fournier

Laplace, Université de Toulouse, France

richard.fournier@laplace.univ-tlse.fr

D Lemonnier

PPrime Institute, CNRS -- ENSMA, University of Poitiers, France

denis.lemonnier@ensma.fr

P Lybaert

UMONS, Thermal Engineering and Combustion Laboratory, Belgium

paul.lybaert@umons.ac.be

N Selçuk

Middle East Technical University, Turkey selcuk@metu.edu.tr