

MIGRATE 1st International Summer School

Strasbourg – June 27 – 28, 2016



MIGRATE is a Marie Skłodowska-Curie European Training Network, intended to address some of the current challenges to innovation that faces European industry with regard to heat and mass transfer in gas-based micro-scale processes. This network of 10 participants and 6 associated partners coming from all over the European Community will cover different aspects of enhanced heat transfer and thermal effects in gases: from modelling of heat transfer processes and devices, development and characterization of sensors and measurement systems for heat transfer in gas flows as well as thermally driven micro gas separators, to micro-scale devices for enhanced and efficient heat recovery in environmental, transport, telecommunications and energy generation. More details can be found on www.migrate2015.eu.

The MIGRATE project of the European Community presents its first International Summer School, taking place at the University of Strasbourg, FRANCE, on June 27 - 28, 2016. During this intensive two-day Summer School, will be presented lectures from fundamental knowledge to advanced level. The following topics will be covered by specific lectures:

- *Review on Microfabrication techniques: Silicon and Polymers*
- *Review on Microfabrication techniques: metals and ceramics*
- *Particularities of the gas flow simulations in MEMS devices: review of main approaches*
- *Continuum approaches: Navier-Stokes for rarefied gas flows*
- *Extended hydrodynamics and hybrid fluid/molecular techniques*
- *Introduction to DSMC*
- *Kinetic methods*
- *Molecular dynamics*
- *Scaling effects in microdevices*
- *Mass flow rate measurements for rarefied gases*
- *Measurement of accommodation coefficients*
- *Optical techniques for temperature measurements*
- *Vacuum Pumps*
- *Maturing research assets to product*
- *IP Management*

Talks of highly experienced and skilled specialists from Universities, Research Labs and Industry will provide deep view inside these topics. The detailed program can be found at www.migrate2015.eu



2-day Summer School Fees

Early bird registration (before June 1 st):	€ 300
Registration after June 1 st :	€ 350

The Summer School will be coupled to the 1st Migrate International Workshop organized at the same location on June 30 and July 1st. The call for abstracts and Workshop program can be found on the Migrate website: www.migrate2015.eu

Workshop fees:	€ 200
Combined registration (Summer School and Workshop) fees:	€ 400

Fees include the participation costs to the events + lunches and coffee breaks: registration@migrate2015.eu

Important Dates

June 1st, 2016:	Deadline for early bird registration
June 27-28, 2016	Summer School
June 30 – July 1st, 2016:	Workshop

Scientific Committee

Erik Arlemark	ASML
Lucien Baldas	Institut National des Sciences Appliquées de Toulouse
Juergen J. Brandner	Karlsruhe Institute of Technology (KIT)
Stéphane Colin	Institut National des Sciences Appliquées de Toulouse (INSA)
Michel Delanaye	MITIS SA
Stéphanette Englaro	In'Air Solutions
Aldo Frezzotti	Politecnico Milano
Arjan J.H. Frijns	Technische Universiteit Eindhoven
Irina Graur Martin	Aix-Marseille University
Stéphane Le Calvé	ICPEES – University of Strasbourg
Gian Luca Morini	Alma Mater Studiorum – Università di Bologna
David Newport	University of Limerick
Dimitris Valougeorgis	Panepistimio Thessalias – University of Thessaly
Jason Stafford	Nokia Bell Laboratories
Stefan Stefanov	Institute of Mechanics, Bulgarian Academy of Sciences
Martin Wüest	INFICON
Yonghao Zhang	University of Strathclyde

Organizing Committee

Lucien Baldas & Stéphane Colin	Institut National des Sciences Appliquées de Toulouse
Juergen J. Brandner & Martin Knapp	Karlsruhe Institute of Technology
Stéphane Le Calvé	ICPEES – University of Strasbourg

Information

For more information about the Summer School and Workshop, please contact the event organizers:

Global organization: Dr. Lucien Baldas (lucien.baldas@insa-toulouse.fr) or
Pr. Stéphane Colin (stephane.colin@insa-toulouse.fr)

Local organization: Dr. Stéphane Le Calvé (slecalve@unistra.fr)