



**Lattice-Boltzmann Methods for Industrial Applications:
Overview, Guidance & Examples
13-14 June 2016**

Monday, 13 June 2016

Fundamentals

| | | |
|--------|---|------------------|
| 09 :30 | Welcome, Coffee & Registration | |
| 09 :45 | Introduction to Lattice-Boltzmann Methods : Fundamentals | Prof. P.Sagaut |
| 10:45 | Refreshment | |
| 11:00 | Introduction to Lattice-Boltzmann Methods : Acoustic wave propagation & heat transfer | Prof. P.Sagaut |
| 12:00 | Lunch | |
| 14:00 | Immersed Boundary Conditions for LBM | Dr. J. Favier |
| 15:00 | Boundary conditions for LBM, Nested grid techniques for LBM | Dr. O Malaspinas |
| 15:45 | Refreshment | |
| 16:00 | Turbulence modelling for LBM, Stabilized schemes for LBM | Dr. O Malaspinas |
| 17:00 | Q&A | |
| 17:30 | Close | |

Tuesday, 14 June 2016

Industrial Applications

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|-------|---|-----------------|
| 09:00 | Coffee | |
| 09:15 | Applications in aerospace engineering : aerodynamics, aeroacoustics, heat transfer - part 1 | Dr. D. Casalino |
| 10:30 | Refreshments | |
| 10:45 | Applications in aerospace engineering : aerodynamics, aeroacoustics, heat transfer - part 2 | Dr. D. Casalino |
| 12:00 | Lunch | |
| 13:00 | Applications in automotive industry: aerodynamics, aeroacoustics, heat transfer - part 1 | Dr. K. Kritikos |
| 14:00 | Refreshment | |
| 14:15 | Applications in automotive industry: aerodynamics, aeroacoustics, heat transfer - part 2 | Dr. K. Kritikos |
| 15:15 | Q&A | |
| 15:45 | Course End | |

Lecturers

Prof. Pierre Sagaut, Aix-Marseille Universite, Marseille, France

Dr Julien Favier, Aix-Marseille Universite, Marseille, France

Dr. Kosmas Kritikos, EXA, GmbH, Germany

Dr Damiano Casalino, EXA, GmbH, Germany

Dr. *Orestis Malaspinas*, Univ. Geneve, Switzerland

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