

Keynote Speaker Bio



**Michael
BARGEDE**

Prof. Michael Barge got his PhD in 1991 at the TU Darmstadt (Prof. Hohenberg) and the TU München (Prof. Woschni) with a Dissertation about Wall Heat Transfer in Internal Combustion Engines.

Since 1998 he has been Member of the Board of Management of the Research Institute for Automotive Engineering and Vehicle Engines, Stuttgart (FKFS), for which he also served as Chairman of the Board in 2004-2006 and 2000-2002. He is author or co-author of more than 150 scientific publications as on the subjects of Combustion, Thermodynamics, Gas Exchange, NVH, Mechanics, Modeling, Simulation and Control of Internal Combustion Engines.



**Mario
CARTA**

Dr. Carta is an ENEA researcher since 1983. He has been mainly involved in fast reactor physics (among others, detached at CEA-CEN Cadarache – France from 1986 to 1989 as member of the international SPX-I start-up analysis group) and Accelerator Driven Systems physics (as responsible of different research projects at national and international level, among which the TRADE physics analysis group under the coordination of C. Rubbia). Since 2013 he is Head of the Nuclear Research Reactors Laboratory at C.R. Casaccia, ENEA delegate in different NEA and IAEA working groups and Italian delegate in the IAEA Technical Working Group on Research Reactors. He has co-authored about 200 publications among scientific reviews, conferences contributions and technical reports.



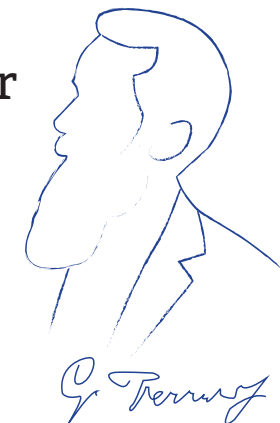
**Frédéric
KUZNIK**

Dr. Frédéric Kuznik is Professor at the National Institute of Applied Sciences in Lyon (INSA Lyon) and Director of the Center for Energy and Thermal Sciences of Lyon (CETHIL, UMR 5008). He is also the Director of the joint laboratory EDF - CETHIL called BHEE (Energy Efficient Buildings). His main domain of interest is energy in buildings/districts/cities with a special focus on thermal energy storage.

16th December 2019

2019 Energetics PhD Day

Auditorium
Energy Center



RESEARCH TRACK: FLUID MACHINERY, ENERGY SYSTEMS AND POWER GENERATION

09:00-09:30 OPENING KEYNOTE

prof. Michael BARGENDE – IVK/ FKFS-Universität Stuttgart – Managing Board Automotive Powertrains

“Powertrains of the Future - in the Crossfire between Desire and Reality”

09:30-10:00 OPENING KEYNOTE FROM PAST PhD STUDENT

dr. Theodoros VLACHOS (XXV cycle) - Former Scientific/Technical Project Officer at European Commission, Joint Research Centre, currently Team leader for GPF and CO₂ reduction emissions at Maserati Alfa Romeo, Modena, Italy

10:00-10:30 COFFEE BREAK

10:30-12:00 XXXII CYCLE PhD RESEARCH ACTIVITY PRESENTATIONS

- 10:30-10:45 DI PIERRO Giuseppe - Analysis, Development and Optimization of Automotive Electric Hybrid Powertrain Systems
- 10:45-11:00 MANCARELLA Alessandro- PCCI concept and combustion control techniques on a 3.0 l diesel engine
- 11:00-11:15 SAPIO Francesco- Diesel after-treatment modelling optimization techniques
- 11:15-11:30 TANSINI Alessandro- Road vehicles CO₂ flexible calculation approaches
- 11:30-11:45 ZANELLI Alessandro- Modeling and simulation of innovative electrified diesel propulsion architectures
- 11:45-12:00 ZHANG Tantan- Fluid dynamics of internal combustion engines – diesel injection systems

ALL RESEARCH TRACK

12:00-12:45 XXXIII and XXXIV CYCLE POSTERS HIGHLIGHTS

- 12:00-12:15 XXXIII & XXXIV CYCLE POSTERS HIGHLIGHTS (FLUID MACHINERY, ENERGY SYSTEMS AND POWER GENERATION)
- 12:15-12:25 XXXIII & XXXIV CYCLE POSTERS HIGHLIGHTS (NUCLEAR REACTOR PHYSICS AND ENGINEERING)
- 12:25-12:45 XXXIII & XXXIV CYCLE POSTERS HIGHLIGHTS (THERMAL ENGINEERING AND INDUSTRIAL ENERGY SYSTEMS - BUILDING PHYSICS AND BUILDING ENERGY SYSTEMS)

12:45- 13:30 LUNCH - POSTER SESSION

RESEARCH TRACK: NUCLEAR REACTOR PHYSICS - NUCLEAR POWER PLANTS

13:30-14:00 OPENING KEYNOTE

Dr. Mario CARTA - Senior researcher and Head of the Laboratory “Nuclear Research Reactors”, ENEA Casaccia Laboratories, Rome, Italy

“TRIGA RC-1, TRIGA LENA Pavia and RSV TAPIRO Research Reactors: domestic heritage for the future of the nuclear culture in Italy”

14:00-14:30 OPENING KEYNOTE FROM PAST PhD STUDENT

Dr. Stefano CARLI, (XXIX Cycle) PostDoc at KU Leuven, Belgium (NUCLEAR REACTOR PHYSICS AND NUCLEAR ENGINEERING) – remote connection

14:30-15:00 XXXII PhD RESEARCH ACTIVITY PRESENTATIONS

- 13:45-14:00 WU Haosheng- SOLPS-ITER modelling of Asdex Upgrade L-mode
- 14:00-14:15 BERSANO Andrea- Innovative heat removal and transport systems for advanced nuclear reactors

15:00-15:30 COFFEE BREAK

RESEARCH TRACK: BUILDING PHYSICS AND BUILDING ENERGY SYSTEMS, THERMAL ENGINEERING AND INDUSTRIAL ENERGY SYSTEMS

15:30-16:00 OPENING KEYNOTE

Prof. Frédéric KUZNIK - Professor and Director of the CETHIL laboratory, Center for Energy and Thermal Sciences, National Institute of Applied Sciences, Lyon, France

“Thermochemical Heat Storage in Buildings: Potential and Challenges”

16:00-16:30 OPENING KEYNOTE FROM PAST PhD STUDENT

Dr. Gianluca SERALE (XXX Cycle), former post-doc at Princeton University, currently Associate Consultant at Boston Consulting Group (BCG)

16:30-17:45 XXXII PhD RESEARCH ACTIVITY PRESENTATIONS

- 16:30-16:45 CAVANA Marco- Gas network modeling for integrated energy infrastructures.
- 16:45-17:00 GENTILE Vincenzo Maria- Enhancing Solar Desiccant Systems
- 17:00-17:15 ISAIA Francesco- Exploiting the potential of adaptive building components by means of innovative control strategies
- 17:15-17:30 PISCITELLI Marco Savino- Energy management in buildings through data analytics technologies
- 17:30-17:45 PRIMO Elisa- Actual energy performance and IEQ of buildings – the effect of occupancy

BEST PRESENTATION AWARDS CLOSING REMARKS APERITIFS