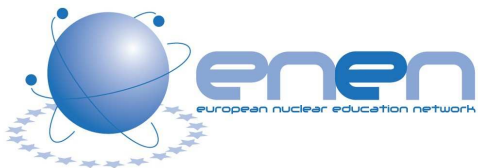


**The 3<sup>rd</sup> ENEN PhD Event 2009**  
**International Youth Conference on Energetics 2009**  
**In Budapest, Hungary, 5 June 2009 at 9-18h**

*Programme*

- 09:00-09:10 **OPENING OF THE EVENT**  
Prof. em. Michel GIOT, *Université catholique de Louvain, Belgium, Chair of the Jury*
- 09:10-09:20 Introduction of the ENEN Association  
Prof. Joseph SAFIEH, *CEA/INSTN, France, President of ENEN*
- 09:20-11:00 **SESSION 1: PHYSICS AND CODES**  
Chair: Prof. Rakesh CHAWLA, *Ecole Polytechnique Fédérale de Lausanne, Switzerland*
- 09:20 Daniele TOMATIS (*Politecnico di Torino, Italy*): Application of the Migration Mode Method (MMM) in Reactor Physics
- 09:50 Benoit HABERT (*CEA-Cadarache, France*): Estimation of Uncertainties in the Nuclear Reaction Cross Sections Evaluation.
- 10:20 Alessandro PETRUZZI (*Università di Pisa, DIMNP, Italy*): Development and Application of Methodologies for Sensitivity Analysis and Uncertainty Evaluation of the Results of the Best Estimate System Codes Applied in Nuclear Technology.
- 10:50 Closing the session
- 11:00-11:20 *Coffee break*
- 11:20-13:00 **SESSION 2: MATERIALS AND THERMAL SCIENCES**  
Chair: Prof. Csaba SÜKÖSD, *Budapest University of Technology and Economics, Hungary*
- 11:20 Julien CABRERO (*CEA-Cadarache, France*): Titanium Carbide and Silicon Carbide Thermal Conductivity under Heavy Ions Irradiation
- 11:50 Giovanni BONNY (*SCK•CEN, Belgium*): Many-body interatomic potentials to model radiation damage in reactor pressure vessel steels and in-core components
- 12:20 Werner van ANTWERPEN (*North-West University Potchefstroom Campus, South Africa*): Modelling of the Effective Thermal Conductivity in the Near-Wall Region of a Packed Bebble Bed.
- 12:50 Closing the session
- 13:00-14:00 *Lunch break*



14:00-15:40 **SESSION 3: GENERATION IV SYSTEMS**

Chair: Prof. Petre GHITESCU, *Universitatea Politehnica din Bucuresti, Romania*

- 14:00 Leïla GICQUEL (*CEA-Cadarache, France*): Determination of Sodium-Carbon Dioxide Reaction Kinetics for a Nuclear Application on Sodium Fast Reactors.  
14:30 Aaron EPINEY (*Ecole Polytechnique Fédérale de Lausanne and PSI, Switzerland*): Gas-Cooled Fast Reactor : Studies on Safety Enhancement.  
15:00 Valentino di MARCELLO (*Politecnico di Milano, Italy*): A Multi-Physics Approach to the Modelling of the Molten Salt Reactor.  
15:30 Closing the session

15:40-16:10 *Coffee break*

16:10-17:50 **SESSION 4: SAFETY AND WASTES**

Chair: Prof. Bruno PANELLA, *Politecnico di Torino, Italy*

- 16:10 Andrija VOLKANOVSKI (*Jožef Stefan Institute, Slovenia*): Impact of Offsite Power System Reliability on Nuclear Power Plant Safety.  
16:40 Magali MAGNIN (*CEA-Marcoule, France*): Control of Phase Separation and Crystallisation Phenomena in Simplified High Level Nuclear Waste Glasses.  
17:10 Matej ZACHAR (*Slovak University of Technology in Bratislava, Slovakia*): The Analysis of Metal Melting Application in the Waste Management Strategies Applied in the Nuclear Installation Decommissioning Process.  
17:40 Closing the session

17:50-18:00 **CLOSING THE EVENT**

Prof. em. Michel GIOT, *Université catholique de Louvain, Belgium, Chair of the Jury*

18:00-18:45 Deliberation of the Jury

20:00 at the beginning of the Gala Dinner: **AWARD CEREMONY**

Proclamation of the results by Prof. em. Michel GIOT, Chair of the Jury

Certificates given by Prof. em. Michel GIOT, Chair of the Jury

Prizes given by Prof. Joseph SAFIEH, President of ENEN