

Industry Day Program

Wednesday, July 17, 2019

10:30-11:00 **Welcome and opening session**

11:00-13:00 **FIRST SESSION**

- *Mathematics a key enabler for Digital Twins.*
Dirk Hartmann. Siemens, Corporate Technology (Germany).
- *The Ferrosolar project: industrial R&D&I for new applications of silicon.*
Ramón Ordás Badía. Chief Executive Officer of Silicio Ferrosolar (Spain).
- *Methods and issues for the analysis of complex systems by numerical simulation at EDF.*
Bertrand looss. Senior researcher in EDF R&D, Department PRISME (Performance, Industrial Risk, Monitoring for Maintenance and Operations), Chatou (France).
- *To BEM, or not to BEM, that is the question.*
Stefan Kurz. Vice President for Strategies and Technologies of Modeling and Simulation, Corporate Sector Research and Advance Engineering, Robert Bosch GmbH, (Germany).

13:00-14:30 **Lunch break**

14:30-16:30 **SECOND SESSION**

- *How to embed artificial intelligence in a Bank?*
Julien Crowe. Leader, Artificial Intelligence. National Bank of Canada (Canada).
- *Big Data & Machine Learning Strategy in Banco Santander.*
Álvaro Fernández Velandó. Chief Risk Data Officer, Banco de Santander (Spain).
- *Solving social and industrial issues via digital co-creation based on advanced mathematical technologies.*
Hirokazu Anai. Artificial Intelligence Laboratory, FUJITSU LABORATORIES LTD (Japan).
- *Towards Secure and Scalable Industrial Blockchains.*
Ghassan Karame. NEC Laboratories Europe.

16:30-17:00 **Coffee break**

17:00-19:00 **THIRD SESSION**

- *GANESO, a complete tool for gas networks.*
Carlos Vales Fernández. Director of Hub Project, Reganosa (Spain).
- *Industrial mathematics in Nors Group: driving a new management approach.*
Margarida Pina. Nors Group Business Development Director. NORS Automotive (Portugal).
- *Mathematics and Los Alamos National Laboratory: Advances and Collaboration.*
Carrie A. Manore. Staff Scientist, Los Alamos National Laboratory (USA).
- *Algorithms for mass spectral library searching.*
Arun S. Moorthy. Director's Postdoctoral Fellow and Mathematical Statistician, NIST (USA).

19:00-19:15 **Break**

19:15-20:15 **FOURTH SESSION**

- *Modeling of an in-situ technique for measuring surface impedance and reflection coefficient using Acoustic Particle Velocity.*
Graciano Carrillo Pousa. Research & Development, Microflown Technologies, (Netherlands)
- *Some experiences from mathematical modeling studies with academic institutions.*
Uwe Beuscher. PSD Modeling & Simulation Team. 7, W.L. Gore & Associates (USA).

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