

Industry Day Program

Wednesday, July 17, 2019

Room FE-1-A: FE building, Aula Magna (first floor)

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

Welcome video from the **Minister for Industry, Trade and Tourism**

María Vicenta Mestre, Rector of the University of Valencia

Javier Ponce, Director of the Center for the Industry Technological Development (CDTI)

Maria Esteban, President of ICIAM

Peregrina Quintela, President of Spanish Mathematics-Industry (Math-in) Network

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

- *Mathematics a key enabler for Digital Twins.*
Dirk Hartmann. Siemens, Corporate Technology (Germany).
Chairperson: Wil Schilders, President of EU-MATHS-IN
- *The Ferrosolar project: industrial R&D&I for new applications of silicon.*
Ramón Ordás Badía. Chief Executive Officer of Silicio Ferrosolar (Spain).
Chairperson: Dolores Gómez Pedreira, Affiliated researcher of ITMATI and Universidade de Santiago de Compostela (Spain).
- *Methods and issues for the analysis of complex systems by numerical simulation at EDF.*
Bertrand Iooss. Senior researcher in EDF R&D, Department PRISME (Performance, Industrial Risk, Monitoring for Maintenance and Operations), Chatou (France).
Chairperson: Tomeu Coll, Vice President of math-in and Universitat de les Illes Balears (Spain).
- *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).

Chairperson: Adérito Araujo, President of the European Consortium for Mathematics in Industry (ECMI).

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).
Chairperson: Alejandro Adem, CEO and Scientific Director of Mitacs (Canada).
- *Big Data & Machine Learning Strategy in Banco Santander.*
Álvaro Fernández Velandó. Chief Risk Data Officer, Banco de Santander (Spain).
Chairperson: José Miguel Lorente, Territorial Director of Valencia and Murcia, Banco 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).
Chairperson: Osamu Saeki, Director of the Institute of Mathematics for Industry (Japan).
- *Towards Secure and Scalable Industrial Blockchains.*
Ghassan Karame. NEC Laboratories Europe.
Chairperson: Osamu Saeki, Director of the Institute of Mathematics for Industry (Japan).

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).
Chairperson: Alfredo Bermúdez de Castro, member of the Governing Council of ITMATI and Universidade de Santiago de Compostela (Spain).
- *Industrial mathematics in Nors Group: driving a new management approach.*
Margarida Pina. Nors Group Business Development Director. NORS Automotive (Portugal).
Chairperson: Manuel Cruz, President of PT-MATHS-IN (Portugal).
- *Mathematics and Los Alamos National Laboratory: Advances and Collaboration.*
Carrie A. Manore. Staff Scientist, Los Alamos National Laboratory (USA).
Chairperson: M^a Luisa Rapún, member of the Board of Directors of math-in and Universidad Politécnica de Madrid (Spain).

- *Algorithms for mass spectral library searching.*
Arun S. Moorthy. Director's Postdoctoral Fellow and Mathematical Statistician, NIST (USA).

Chairperson: Carlos Parés, Former Vice-President of math-in and Universidad de Málaga (Spain).

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)

Chairperson: Andrés Prieto Aneiros, Afiliated researcher to ITMATI and Universidade da Coruña (Spain).

- *Some experiences from mathematical modeling studies with academic institutions.*

Uwe Beuscher. PSD Modeling & Simulation Team. 7, W.L. Gore & Associates (USA).

Chairperson: José Luis Ferrín, member of the Board of Directors of math-in and Universidade de Santiago de Compostela (Spain).

20:15 **Closing Session and Best Industry-Related Poster Awards**

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