



ACCADEMIA NAZIONALE DEI LINCEI
CENTRO LINCEO INTERDISCIPLINARE
«BENIAMINO SEGRE»

CONFERENCE

**MODELS, SIMULATION, OPTIMIZATION:
MATHEMATICAL TECHNOLOGIES FOR INDUSTRIAL INNOVATION IN EUROPE**

19-21 DECEMBER 2016

Comitato ordinatore: Maria J. ESTEBAN, Antonio FASANO, Michael GÜNTHER, Zoltán HORVÁTH, Volker MERHMANN, Roberto NATALINI, Tito ORLANDI, Mario PRIMICERIO (Coordinatore), Peregrina QUINTELA, Wil SCHILDERS, Antonino SGALAMBRO, Alberto TESEI

PROGRAMME

Monday, 19 December

I session - Success Stories of Mathematical Technologies for Industrial Innovation

- 14.30 Opening session
- 14.40 Bulgaria: Tihomir IVANOV: *A success story from the Bulgarian ESGIs*
- 15.05 Germany: KoMSO (Committee for Mathematical Modelling, Simulation and Optimisation) - Hans Georg BOCK: *Optimum Experimental Design for Nonlinear Dynamical Models - Mathematical Basic Research of High Economic Impact*
- 15.30 Hungary: HU-MATHS-IN – Tibor CSENDES: *Optimization of LED based public lighting units*
- 15.55 Ireland: Mathematics Applications Consortium for Science and Industry – Sinead BURKE: *Feedback from 10 years of industrial mathematics in Ireland*
- 16.20 Norway: Norwegian EU-MATHS-IN Network - Markus GRASMAIR: *SURF imaging for contrast improvement in ultrasound imaging*
- 16.45 Sweden: Swedish EU-MATHS-IN Network - Ozan ÖKTEM: *Inverse problems in mathematical imaging sciences and applications to the health care sector*

Tuesday, 20 December:

II and III session - Success Stories of Mathematical Technologies for Industrial Innovation

- 9.00 Opening Session
- 9.10 Austria: IMNA (Industrial Mathematics Network for Austria) – Peter KRITZER: *Platemod: A model-based production system*
- 9.35 Czech Republic: Czech Network for Mathematics in Industry – Miroslav TUMA: *Modeling and Simulation of Float Glass Forming Process*
- 10.00 France: AMIES (Agence pour les mathématiques en interaction avec l'entreprise et la société) - Stephane CORDIER: *Some AMIES supported success stories in France with EDF, St Gobain, PREDICAL, Cie du vent, POLLEN, Hager*
- 10.25 Poland: Polish Service Network for Mathematics in Industry and Innovations PLMATHS-IN - Wojciech OKRASINSKI: *Modelling of the machines damage detection for Polish mines*
- 10.50 Portugal: PT-MATHS-IN - Manuel CRUZ: *Modeling, Simulating and Optimizing the stock of an automotive spare parts wholesaler*
- 11.15 Coffee break

- 11.30 Spain: Math-in (Red española matemática-industria) - Carlos PARÉS: *Some successful stories of the Spanish Network for Mathematics & Industry math-in*
- 11.55 The Netherlands: Platform Wiskunde Nederland - Kees VUIK: *Boosting Productivity of an Alumina Cement Plant through Computational Fluid Dynamics*
- 12.20 United Kingdom - William LEE: *Predicting Alumina Quality*
- 12.45 Italy: Sportello Matematico per l'Industria Italiana - Maurizio CESERI: *Innovating Confocal Microscopy at Crestoptics: a Success Story of the Italian Network*

14.30–17.00

Institutional Round Table on the current status and perspective impact of Mathematical Technologies in Europe

Mario STEFANINI (Director of the Centro Linceo Interdisciplinare): Official greetings

Massimo INGUSCIO (President of CNR, Italy's National Research Council): *Introduction: The potential benefits of Mathematical Technologies for Industrial Innovation*

Antonio BARTOLONI (MISE, Italy's Ministry of Industrial Development, Sustainable Development and Competitiveness Policies Department): *MISE Policies to foster Knowledge Transfer in the field of Mathematical Technologies*

Nicoletta AMODIO (Confindustria, Industrial Policies Area): *Mathematical Technologies and Innovation: CNR-Confindustria and the SPIN platform experiences*

Daniela CORDA (CNR, Italy's National Research Council, Italian Delegate for Horizon 2020): *Future and Emerging Technologies (FET) in Horizon 2020*

Cinzia MAIOLINO (CGIL, Industrial Policies Coordination): *Innovation: a driver for boosting employment in Europe*

Discussion and conclusions

Wednesday, 21 Dicembre

9.00 – 13.00

EU-MATHS-IN Council Meeting

ROMA - PALAZZINA DELL'AUDITORIO - VIA DELLA LUNGARA, 230

www.lincci.it - link: Centro Linceo Interdisciplinare

Il convegno è organizzato in collaborazione con EU-MATHS-IN

La partecipazione al convegno è libera, fino ad esaurimento dei posti disponibili. Si prega di segnalare la presenza

Segreteria del convegno: piemontese@lincci.it