

DEISA PRACE Symposium Programme

Monday, May 10

12:00 *Registration Opens*

12:30-14:00 **Buffet Lunch**

14:00 *Welcome*

14:00-14:10 **Registration & Lunch**

“World-wide Perspectives 1”

14:10–14:50 **Montserrat Torné**, Director General for International Cooperation and Institutional Relations, Ministry of Science and Innovation, Spain

“Conclusions of the European Conference on RI and influence on HPC”

14:50–15:30 **Kostas Glinos**, Head of Unit, DG INFSO, European Commission

“HPC - from a European Perspective”

15:30–16:10 **José Muñoz**, Acting Director, Office of CyberInfrastructure, National Science Foundation, US

“High-Performance Computing and the Cyberinfrastructure Eco-System”

16:10-16:30 **Coffee Break**

“World-wide Perspectives 2”

16:30-17:10 **Akira Ukawa**, Vice President, University of Tsukuba, Japan

“The Next-Generation Supercomputer Project and the Future of High End Computing in Japan”

17:10-17:50 **Thomas Zacharia**, Deputy Director, ORNL, Department of Energy, US

17:50-18:30 **Catherine Rivière**, GENCI, France, European Exascale Software Project EESI

“European Exascale Software Initiative”

Tuesday, May 11

“DEISA and PRACE Updates”

09:00-9:15 **Thomas Eickermann**, FZJ, Germany

“PRACE Implementation Phase”

09:15-9:30 **Hermann Lederer**, RZG, Germany

“DEISA Extreme Computing”

“Challenges in Computational Science 1”

9:30-10:10 **Astrophysics:**

Wolfgang Hillebrandt, MPI for Astrophysics, Germany

“Modelling Cosmic Explosions”

10:10-10:50 **Materials Science:**

Thomas Schulthess, ETHZ & CSCS, Switzerland

“Ab initio Calculation of Free Energies in Nanoscale Systems”

10:50-11:10 **Coffee Break**

“Challenges in Computational Science 2”

11:10-11:50 **Earth Sciences:**

José María Baldasano, Earth Sciences Dep, BSC, Spain

“Earth System Modeling Framework: Computation+Data”

11:50-12:30 **Fusion for Energy:**

Laurent Villard, EPFL, Switzerland

“HPC Simulations of Magnetic Fusion Plasmas”

12:30-13:10 **Life Sciences:**

Ivo Gut, Centro Nacional de Analisis Genómico, Spain

“Informatic Issues of Genomics”

13:10-14:30 **Lunch Break**

“Extreme Computing 1”

14:30–14:55 **Particle Physics / QCD:**

Richard Kenway, University of Edinburgh, UK

“Solving the Mysteries of Quarks”

14:55–15:20 **Life Sciences:**

Ilpo Vattulainen, Helsinki University of Technology, Finland

“Physics of biological systems”

15:20–15:45 **Earth Sciences:**

Stephan Stellmach, University of Muenster, Germany

“Turbulent transport in buoyancy-driven geophysical flows”

15:45–16:10 **Engineering:**

Roel Verstappen, The Netherlands Institute

“Regularizing isotropic turbulence”

16:10-16:40 **Coffee Break**

“Technology for the Future”

16:40-17:05 **Jesus Labarta**, BSC, Spain

“Programming models and tools”

17:05-17:30 **Ana Bela Dias**, NCF, The Netherlands

“Access to PRACE systems”

17:30-17:55 **Herbert Huber**, LRZ, Germany

“Emerging and future technologies”

20:30 **Conference Dinner**

Wednesday, May 12

“Using DEISA/PRACE & TERAGRID”

9:00-9:30 **Peter Coveney**, University College London, UK,

Shantenu Jha, Louisiana State University, US

“Towards Accurate and Precise Patient-specific Treatment Using Large-Scale Free Energy Calculations”

“Extreme Computing 2”

9:30-9:55 **Materials Science:**

Marco Bernasconi, Università Milano Bicocca, Milano, Italy

“Ab-initio study of GeSbTe phase change alloys”

9:55-10:20 **Astrophysics:**

Stefan Gottloeber, Astrophysical Institute Potsdam, Germany

“The Small Scale Structure of the Universe”

10:20-10:45 **Molecular Quantum Chemistry / QMC:**

Philip Eric Hoggan, CNRS, France

“Slater Type Orbital Project for Quantum monte carlo large molecule simulations”

“Extreme Computing 3”

11:15-11:45 **Earth Sciences:**

Patrick Joeckel, DLR, Germany

“Coupling the Chemistry in Earth System Models on multiple Scales”

11:45-12:10 **Engineering:**

Vassilis Theofilis, Universidad Politécnica de Madrid, Spain

“Global instability Analysis of Turbulent Separated flows”

12:10-12:35 **Particle Physics / QCD:**

Sandor Katz, Department of Theoretical Physics, Eötvös University, Hungary

“Lattice QCD thermodynamics with improved dynamical fermions”

12:35-13:00 **Life Sciences:**

Michael Martinez, Klaus Tschira Fund, EML Research GmbH, Heidelberg, Germany

“Multiscale simulation of membrane associated multiprotein complexes”

13:00 *Closing Remarks*

13:10-14:30 **Lunch**



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