



Scientific Program

February 17 (Friday)

9:00 – 9:30 *Registration*

9:30 – 10:00 *Opening*

Chairman: *Stoyan Markov*

10:00 – 10:45 Florian Berberich (Juelich, Germany), *PRACE: World class HPC Services for Science*

10:45 – 11:15 *Coffee break*

Chairman: *Krassimir Georgiev*

11:15 – 12:00 Christopher Johnson (EPPC, UK), *HECToR: the UK national supercomputing service*

12:00 – 12:45 Ivan Giroto (ICHEC, Ireland), *Porting highly computational intensive applications to hybrid systems: case studies from the Irish Centre for High-End Computing (ICHEC)*

12:45 – 13:45 *Lunch*

Chairman: *Svetozar Margenov*

- 13:45 – 14:30 *Rossen Apostolov (ScalaLife Project, Sweden),
ScalaLife - Scalable Software Services for Life
Science*
- 14:30 – 15:15 *Vit Vondrak (VSB, Czech Republic), FLOREON+
system - HPC service for floods prediction*
- 15:15 – 16:00 *Zdenec Dostal (VSB, Czech Republic), Scalable
algorithms for multibody contact problems:
Toward massively parallel implementation and
industrial applications*
- 16:00 – 16:30 *Coffee break*

Chairman: *Emanouil Atanasov*

- 16:30 – 17:15 *Danica Stojilkovic (IPB, Serbia), High-
Performance Computing Infrastructure for South
East Europe's Research Communities (HP-SEE)
project along with some selected supported
applications*
- 17:15 – 18:00 *Murat Manguoglu (METU, Turkey), Parallel
Algorithms for Solution of Large Sparse Linear
Systems with Applications*

February 18 (Saturday)

Chairman: *Ivan Dimov*

9:00 – 9:45 Svetozar Margenov (NCSA&IICT-BAS, Bulgaria),
HPC infrastructure development in Bulgaria

9:45 – 10:30 Vassil Aleksandrov (BSC, Spain), *Scalable
algorithms approaches for solving problems with
uncertainties*

10:30 – 11:00 *Coffee break*

Chairman: *Vassil Alexandrov*

11:00 – 11:45 Emanouil Atanassov (IICT-BAS, Bulgaria),
*Stochastic modelling of electron transport
problems on different HPC architectures*

11:45 – 12:30 Georgi Vayssilov (NCSA&SU, Bulgaria),
*Computational modeling of the structure and
dynamics of nanosized systems and surfaces*

12:00 – 13:15 Plamenka Borovska (NCSA&TU-Sofia, Bulgaria),
*Performance scalability of the Bulgarian
supercomputer IBM BlueGene/P for biological
sequence processing*

13:15 – 14:15 *Lunch*

Chairman: *Aneta Karaivanova*

14:15 – 14:45 Miroslav Rangelov (NCSA, Bulgaria), *Ribosome MD simulations using inmplicit solvent model*

14:45 – 15:15 Sofia Ivanovska (IICT-BAS, Bulgaria), *Efficient estimation of financial options using heterogeneous GPU resources*

15:15 – 15:45 *Coffee break*

15:45 – 16:30 Discussion on HPC Approaches on Life Sciences and Chemistry (Moderators: *Stoyan Markov* and *Svetozar Margenov*)

16:30 *Closing*