JSC Guest Student Colloquium
September 26/27, 2012 — building 16.4, Rotunda

Wednesday, 09-26-2012

9.30 Welcome and Opening Remarks

Barbara Schlögl, Würzburg
*Embedding plasticity into a parallel
Green's function molecular dynamics code*

Sebastian Rupprecht, Augsburg
*Design of a parallel, multi-grid, conjugate
gradient solver for Reynold's thin film equation*

Khaldoon Ghanem, Aachen
Visualizing Complex Functions Using GPUs

11.35 Lunch 🍴

13.00 **David M Rodrìguez, Salamanca**
EPOCH on JUQUEEN and JUVIS

Felix Uhl, Bochum
*Efficient Communication Schemes for
Stochastic Thermostats in parallel MD Simulations*

14.20 Coffee 💬

14.40 **Anne Springer, Bonn**
*Identification of gravity waves in Atmospheric
Infrared Sounder temperature data*

Kieran Austin, Leipzig
*Computer Simulation Experiments in
Observation of a universal Boltzmann Distribution*

David Haensel, Dresden
*Route choice in pedestrian dynamics:
Case of Evacuation*

Thursday, 09-27-2012

9.30 Opening Remarks

Artur Strebel, Wuppertal
*Parallel random numbers: as easy as 1, 2, 3 -
John Salmons novel approach to random numbers*

Mario Berljafa, Zagreb
*A parallel block iterative eigensolver optimized
for sequences of correlated eigenproblems*

Daniel Arndt, Göttingen
*Design and implementation of an
experimental Finite Element Solver*

11.35 Lunch 🍴

13.00 **Tommaso Zanca, Ferrara**
*Graph 500 benchmarking using
flash memory cards*

Christian Jost, Bonn
*Optimization of Lattice QCD kernels
for Blue Gene/Q*

14.20 Coffee 💬

14.40 Keynote Talk

Dr. Martin Mähler
Head of IBM University Relations
IBM Global Technology Outlook

15.40 Concluding Remarks