Austrian HPC Meeting 2017 - AHPC17 | March 1-3, 2017 | Grundlsee, Austria

Wednesday (March 1, 2017)

10:30	**arrival / registration / coffee**	
11:00	Magnus Nordborg	KEYNOTE TALK: Big Data in Genomics
11:50	Erich Birngruber Seren Ümit	The Past, Present, and Future of HPC in Life Sciences
12:10	Andras Csaki	Shallow and Deep Convection Processes in Convection-Permitting COSMO-CLM Regional Climate Model Simulations
12:30	**lunch**	
14:30	Thomas Varlet	Microsoft: Overview and Case Studies of HPC Scenarios in the Azure Cloud
15:00	Ralph Hinsche	DGX-1 and SATURNV : The World's Most Efficient Supercomputer For AI and Deep Learning
15:20	Christian Jordan	Numerical Investigation of Transitional Turbulent Mixing
15:40	Alban Lumi	Energy Aware Computations on Manycore Systems
16:00	**coffee**	
16:20	Gundolf Haase	Reducing the Memory Footprint of an Eikonal Solver
16:40	Christoph Lemell	Interaction of Ultrashort Laser Pulses with Matter
17:00	Florian Hofer	Need for Speed: Pushing the Boundaries of Molecular Dynamics
	Johannes Kraml	Need for Speed - Rivals: Race to Convergence
17:30	Roman Höllwieser	Computing the QCD Phase Diagram from Effective Polyakov Line Actions via Relative Weights and Mean Field Theory
17:50	Stefano Elefante	Data Processing Using EODC High-Performance Computing Environment
18:15	**dinner**	
19:45	Internal Meeting	
21:00		

Thursday (March 2, 2017)

07:30	**breakfast**	
09:00	Martin Palkovic	KEYNOTE TALK: On the Path towards Exascale Computing in the Czech Republic - 5 Year Anniversary of IT4Innovations National Supercomputing Center
09:50	Thomas Fahringer	AllScale: An Exascale Programming, Multi-Objective Optimisation and Resilience Management Environment Based on Nested Recursive Parallelism
10:10	Florian Libisch	Simulating Realistic Nanodevices
10:30	**coffee**	
11:00	Gerhard Wellein	KEYNOTE TALK: Performance Engineering for HPC: Models Generating Insights
11:50	Alexander Spinn	Charge Anisotropy: Where Atomic Multipoles Matter Most
12:10	Josef Kaufmann	High-Frequency Asymptotics of Multi-Orbital Vertex Functions Incontinuous-Time Quantum Monte Carlo
12:30	**lunch**	
14:30	**VSC** Herbert Störi	VSC-4 and Beyond
	Claudia Blaas-Schenner	VSC Research Center - Education and Support
	Jan Zabloudil	VSC-3 Status
	Markus Stöhr	VSC Best Practices
	Siegfried Reinwald	A Short Overview of the VSC-3 Storage Infrastructure
	Irene Reichl	Process Pinning on VSC-3
	Siegfried Höfinger	Profiling on VSC-3
	Siegfried Höfinger	Novel Accelerators on VSC-3
16:00	**coffee and poster session**	
16:20	Wolfgang Schreiner	From MACH1 to MACH2
16:40	Alois Schlögl	Scientifc Computing at IST Austria
17:00	Martin Thaler	The UIBK HPC Ecosystem
17:20	Giacomo Bertoldi Samuel Senoner	HPC Needs for Integrated Hydrological Models: Examples of Application of the GEOtop Model to the Vienna Scientific Cluster
17:40	Radu A. Talmazan	Regioselectivity of [4+2] Cycloadditions Involving C60 Fullerene and Anthracene Compounds
18:00		
18:15	**dinner**	
19:45	Panel Discussion: HPC as a Service	
21:00		

Friday (March 3, 2017)

7:30	**breakfast**	
9:00	Jesper Larsson Träff	KEYNOTE TALK: High Performance Expectations for MPI
9:50	Ulrich Langer	Parallel Isogeometric Tearing and Interconnecting Methods
10:10	Michael Rader	Ground State Optimisation for Projected Entangled Pair States
10:30	**coffee**	
11:00	**VSC School Project** Patrik Gunacker	Diagrammatic Quantum Monte Carlo For Strongly Correlated Electron Systems
	Francesca Nerattini	Introduction to the Vienna Protein Simulator: Performance and Applications
	Felix Plasser	Molecular Photodynamics Simulations on HPC Systems
	Martina Prugger	Evaluation of the PGAS Model for Highly Unstructured Memory Bound Problems
	Florian Rudolf	Performance Enhancement of Algebraic Multigrid Methods in ViennaCL
	Thomas Ruh	Improving the Parallel Performance of WIEN2k
	Andreas Singraber	Parallel Software Suite for Neural Network Potentials for Materials Simulations
12:30	**lunch**	
14:30	Ivan Coluzza	Artificial Chaperonins
14:50	Yin Wang	GPU Accelerated Coarse-Grained Simulations of Membrane Lipid Bilayer
15:10	Francesco Zonta	Viscosity-Modulated Breakup and Coalescence of Large Drops in Bounded Turbulence
15:30	**coffee**	
16:00	**departure**