

AUSTRIAN HPC MEETING 2018 - AHPC18   February 19-21, 2018   Linz, Austria			Workshops			
Monday, February 19, 2018	Tuesday, February 20, 2018	Wednesday, February 21, 2018	Thursday, February 22, 2018			
 <p><b>Opening Celebration of the MACH-2 Supercomputer at JKU</b></p> <p>10:00 Opening  10:25 Music Intermezzo  10:30 <b>Ulrich Rüde</b>: Supercomputing – Expanding the limits of predictability  11:15 Music Intermezzo  11:20 <b>Wolfgang Schreiner</b>: MACH 2  11:30 Red Button (Virtual START of MACH 2) &amp; Closing  MACH 2 – viewing tours: 9:30, 11:40, 11:50, 12:00</p>	07:30 Breakfast	07:30 Breakfast	07:30 Breakfast	09:00 Breakfast		
	09:00 Keynote: <b>Wolfgang Wagner</b> : The Use of the VSC for Earth Observation Science	09:00 Keynote: <b>Karlheinz Meier</b> : Computers like Brains	09:50 <b>Thomas Rattei</b> : Software infrastructure for bioinformatics on LISC and VSC	10:10 <b>Jürgen Zanghellini</b> : Elementary flux vectors, the missing piece in a unifying description of constraint-based modeling approaches of metabolism	Bioinformatics Workshop	InnoHPC Regional Workshop
	09:50 Keynote: <b>Florian Berberich</b> : PRACE – Accelerator for Research & Innovation	10:10 <b>Jürgen Zanghellini</b> : Elementary flux vectors, the missing piece in a unifying description of constraint-based modeling approaches of metabolism	10:30 <b>POSTER SESSION</b>			
	10:40 Coffee Break	10:40 Coffee Break	11:00 Coffee Break	11:00 Coffee Break	Bioinformatics Workshop	InnoHPC Regional Workshop
	11:00 <b>Beyond the Usual Suspects - get to know HPC in Austria</b> Moderation: Peter Marksteiner (VSC)	11:20 <b>Christian Panigl</b> : ACOnet – High Performance Networking for R&E in Austria	11:40 <b>Susanne Naegele-Jackson</b> : Establishing Large-Scale Virtual Infrastructures with the GEANT Testbeds Service (GTS)	11:40 Lunch		
	12:00 Trip to Courtyard Marriott	12:00 Lunch	12:00 Lunch	11:40 Lunch	Lunch	
	12:30 Registration	13:10 Keynote: <b>Oskar Mencer</b> : Multiscale Dataflow Processing	13:00 <b>Tutorial Sessions</b> :	13:00	Bioinformatics Workshop	InnoHPC Regional Workshop
	13:00 Lunch	14:00 <b>Herbert Störi</b> : The Vienna Scientific Cluster – Status and Outlook	• AllScale (Herbert Jordan & Philipp Gschwandtner, Uni. Innsbruck)	15:00		
	14:00 Keynote: <b>Dieter Kranzlmüller</b> : General Purpose High Performance Computing as Competitive Advantage for Scientists	14:20 <b>Markus Stöhr</b> : Software Containers on VSC	• Hadoop for HPC Users: Overview and First Steps (Elmar Kiesling, TU Wien)			
	14:50 <b>Francesco Zonta</b> : Turbulence annihilation in surface tension stratified flow	14:40 <b>Karl Rupp</b> : Features of ViennaCL in PETSc	• Get Away From The Command Line: Simplifying Your HPC Workflow (Daniel Marth, Catalysts GmbH)			
15:10 <b>Alessio Roccon</b> : Breakup and coalescence of large drops in bounded turbulence: ...	15:00 <b>Thomas Ruh</b> : The Delta Project – Toward a Precision Benchmark Set for Solid State DFT	15:50 Closing	15:00 Closing	Closing		
15:30 <b>Giovanni Soligo</b> : Phase Field Method to predict coalescence of clean and surfactant-laden droplets	15:20 Coffee Break	16:30 Coffee Break	17:00 Closing	Closing		
15:50 Coffee Break	15:40 <b>Tobias Schäfer</b> : Low complexity algorithms for many-body perturbation theory applied to 3D periodic materials	16:00 <b>Michael Rader</b> : Accelerating Tensor Network Algorithms using GPUs	17:00 Closing	Closing		
16:10 <b>Daniel Jodlbauer</b> : Parallelization of block-based preconditioners for fluid-structure interaction problems	16:20 <b>Christoph Hofer</b> : Efficient solvers for discontinuous Galerkin Space Time Isogeometric	16:20 <b>Christoph Hofer</b> : Efficient solvers for discontinuous Galerkin Space Time Isogeometric	17:00 Closing	Closing		
16:30 <b>Fabian Lackner</b> : Simulating the electronic response of atoms, molecules and solids to ultrashort laser pulses	16:40 <b>Martin Neumüller</b> : A Space-Time Parallel Solver for Parabolic Problems	16:40 <b>Martin Neumüller</b> : A Space-Time Parallel Solver for Parabolic Problems	18:00 Dinner	Closing		
16:50 <b>Markus Oppel</b> : Quantum Chemistry on GPUs – a Status Report	17:00 <b>Andreas Schafelner</b> : Space-Time Finite Element Methods for Parabolic Initial-Boundary Value Problems with Variable Coeff.	17:00 <b>Andreas Schafelner</b> : Space-Time Finite Element Methods for Parabolic Initial-Boundary Value Problems with Variable Coeff.	18:00 Dinner	Closing		
17:10 <b>Yin Wang</b> : Study of smart polymer using GPU accelerated molecular dynamics simulation	17:20 <b>Stefan Rosenberger</b> : SIMD Directived Parallelization for a Solver of the Bidomain Equations	17:20 <b>Stefan Rosenberger</b> : SIMD Directived Parallelization for a Solver of the Bidomain Equations	18:00 Dinner	Closing		
17:30 Keynote: <b>Elmar Kiesling</b> : Data-intensive Computing on Commodity Hardware: Hadoop and Beyond	17:40 <b>Patrick Schiffmann</b> : Applications of Reinforcement Learning to Step Size Control in Multi Body Simulation	17:40 <b>Patrick Schiffmann</b> : Applications of Reinforcement Learning to Step Size Control in Multi Body Simulation	18:00 Dinner	Closing		
18:20 Dinner	18:00 Dinner	18:00 Dinner	18:00 Dinner	Closing		
19:45 Internal Meeting	19:30 Panel Discussion: <b>Future of HPC in Austria within Europe</b> Moderation: Irene Reichl (VSC)	19:30 Panel Discussion: <b>Future of HPC in Austria within Europe</b> Moderation: Irene Reichl (VSC)	19:30 Panel Discussion: <b>Future of HPC in Austria within Europe</b> Moderation: Irene Reichl (VSC)	Closing		

