4th Baltic HPC and Cloud Conference

Day 1. Thursday, April 23.							
10:00-10:30		Registration					
10:30-11:00				Opening words. Prof. Talis Juhna, Vice-Rector of RTU Information by the organizing committee			
11:00-11:40	General audience	**Keynote. "The Future of European HPC - EuroHPC and beyond"** Prof. Erwin Laure, Director Max Planck Computing and Data Facility (MPCDF), Germany					
11:40-12:10		Coffe break					
12:10-12:50		**Keynote. "Building European Open Science Cloud in the Nordic and Baltic region"** Lene Krøl Andersen, Ph.D, EOSC-Nordic Project manager.					
12:50-13:20		**Keynote from Latvia – TBD**					
13:20-14:20		Lunch break					
14:20-15:50	Users forum	**Workshop 1: BioExcel workshop on Gromacs**, Artem Zhmurov, Reseearcger at Artem Zhmurov, Researcher at PDC centre for High Performance Computing, and SciLifeLab – Science for Life Laboratory.		**Workshop 2 "Introduction to Message-Passing with MPI"** Oliver is an Applications Consultant in HPC at EPCC, University of Edinburgh. He has taught Message-Passing with MPI both as part of the MSc in HPC offered by EPCC, and in workshops funded by ARCHER, the UK's national supercomputing service. His research interests include programming models for exascale and heterogeneous systems, modelling memory access and data movement, and fault tolerance.		**Workshop 3 "Density functional theory-based modeling in Materials Science"** Prof. Andrei Ruban - Prof. Andrei Ruban, Department of Materials Science and Engineering, KTH Royal Institute of Technology, Sweden. Materials Center Leoben Forschung GmbH,
15:50-16:10		Coffe break					
16:10-16:30		**Workshop 1: BioExcel workshop on Gromacs**, Artem Zhmurov, Reseearcger at Artem Zhmurov, Researcher at PDC centre for High Performance Computing, and SciLifeLab – Science for Life Laboratory.		**Workshop 2 "Introduction to Message-Passing with MPI"** Oliver is an Applications Consultant in HPC at EPCC, University of Edinburgh. He has taught Message-Passing with MPI both as part of the MSc in HPC offered by EPCC, and in workshops funded by ARCHER, the UK's national supercomputing service. His research interests include programming models for exascale and heterogeneous systems, modelling memory access and data movement, and fault tolerance.		**Workshop 3 "Density functional theory-based modeling in Materials Science"** Prof. Andrei Ruban - Prof. Andrei Ruban, Department of Materials Science and Engineering, KTH Royal Institute of Technology, Sweden. Materials Center Leoben Forschung GmbH,
16:30-17:00							
17:00-17:40							
17:30-18:00							
18:00-18:30							
18:30-19:00							
19:00-19:30		Social night					
19:30-20:00							
20:00-20:30							
20:30-21:00							
21:00-21:30							
21:30-22:00							

Day 2. Friday, April 24.				
8:30-9:00				
9:00-9:40		**"EuroHPC supercomputers"** **Title1**: **MareNostrum5**, Dr. Sergi Girona Operations Director - Barcelona Supercomputing Center **Title2**: **LUMI, the EuroHPC pre-exascale system of the North**, Pekka Manninen, Program Director, LUMI, CSC, Finland		
09:40-10:40		**Overview of Baltic HPC** Estonia: Dr. Ivar Koppel, Head of Estonian Scientific Computing Infrastructure (ETAIS) Latvia: Dr. Lauris Cikovskis, Head of Riga Technical University HPC Centre Lithuania: Prof. Dr. Juozas Šulskus, Dean of Vilnius University Faculty of Physics		
10:40-11:00		Coffe break		
11:00-11:40		Panel discussion: **Future of HPC in the Baltic countries**		
11:40-13:00		**HPC from the user perspective** **Title1**: "**Modelling NMR properties by multiscale methods"**, Kestutis Aidas, Senior researcher/lecturer, Institute of Chemical Physics, Faculty of Physics, Vilnius University **Title2**: **"Bioinformatics in the Genomics Era: a crossroads of fields and competences"**, Davide Marnetto, Ph.D, Postdoctoral research fellow, Institute of Genomics, University of Tartu, Estonia **Title3**: **"High-performance computations of haemodynamic flows on heterogeneous cloud infrastructure"**, Arnas Kačeniauskas, Director of the Institute of Applied Computer Science, and Chief Researcher at the Laboratory of Parallel Computing, Vilnius University		
13:00-14:00		Lunch break		
14:00-15:30		**Workshop 4** **Introduction to Arificial Intelligence and Deep Learning** Dario Garcia-Gasulla, Senior Researcher and MSc Raquel Pérez-Arnal, Junior Researcher at High Performance Artificial Intelligence (HPAI) research group, Barcelona Supercomputing Center.	**Workshop 4** **"Biocomputing on HPC"** Part 1 "Galaxy: HPC-scale biocomputing for the Linux-command-line-shy" Ulvi Talas, Ph.D, HPC Centre, University of Tartu, Estonia Part 2 "Modern scientific pipeline development with Nextflow - It's easier than you think" Nurlan Kerimov, Ph.D student, Institute of Computer Science,	**Workshop 6** **“Benefits of ANSYS, HPC and Cloud Solutions”** EDRMedeso, Sweden
15:30-16:00		Coffe break		
16:00-17:30		**Workshop 4: Introduction to Arificial Intelligence and Deep Learning** Dario Garcia-Gasulla, Senior Researcher and MSc Raquel Pérez-Arnal, Junior Researcher at High Performance Artificial Intelligence (HPAI) research group, Barcelona Supercomputing Center.	**Workshop 4** **"Biocomputing on HPC"** Part 1 "Galaxy: HPC-scale biocomputing for the Linux-command-line-shy" Ulvi Talas, Ph.D, HPC Centre, University of Tartu, Estonia Part 2 "Modern scientific pipeline development with Nextflow - It's easier than you think" Nurlan Kerimov, Ph.D student, Institute of Computer Science,	**Workshop 6** **“Benefits of ANSYS, HPC and Cloud Solutions”** EDRMedeso, Sweden