



	Parallel Computing Architectures, Serial Tuning	Message Passing with MPI	Shared Memory Programming with OpenMP	OpenMP Programming for the MIC Architecture	GPGPU Programming with OpenACC
	Mo, March 10	Tu, March 11	We, March 12	Th, March 13	Fr, March 14
9:00 - 10:30		MPI Basics: Part I <ul style="list-style-type: none"> General Concepts Point-to-Point communication <i>H. Iliev, RWTH</i>	Introduction to Parallel Computing with OpenMP <i>C. Terboven, RWTH</i>	Intel® Xeon Phi™ Coprocessor <i>30 min, T. Cramer, RWTH</i> OpenMP for Accelerators <i>60 min, C. Terboven, RWTH</i>	GPU Introduction, OpenACC I <i>Presentation + Lab</i> <i>S. Wienke, RWTH</i>
10:30 - 11:00		coffee break	coffee break	coffee break	coffee break
11:00 - 12:30		Lab: MPI	Lab: OpenMP Part I	Lab: Intel Xeon Phi	OpenACC II <i>Presentation + Lab</i> <i>S. Wienke, RWTH</i>
12:30 - 14:00		lunch break	lunch break	lunch break	lunch break
14:00 - 15:30	Welcome and Introduction <i>15 min, Prof. M. Müller, RWTH</i> Parallel Computing Architectures <i>75 min, C. Terboven, RWTH</i>	MPI Basics: Part II <i>H. Iliev, RWTH</i>	Getting OpenMP up to Speed <i>R. v. d. Pas, Oracle</i>	Vectorization with OpenMP <i>30 min, D. Schmidl, RWTH</i> Tools for OpenMP Programming <i>45 min, D. Schmidl, RWTH</i>	OpenACC III <i>Presentation + Lab</i> <i>S. Wienke, RWTH</i>
15:30 - 16:00	coffee break	coffee break	coffee break	coffee break	The End
16:00 - 17:30	Serial Tuning Basics <i>25 min, F. Robel</i> RZ Environment <i>20 min, T. Cramer, RWTH</i> <i>45 min, Lab: Performance Tuning for Cached-based Systems</i>	Vampir <i>15 min, H. Iliev, RWTH</i> TotalView <i>30 min, T. Cramer, RWTH</i> <i>45 min, Lab: MPI and Tools</i>	Advanced OpenMP Programming <i>45 min, C. Terboven, RWTH</i> <i>45 min, Lab: OpenMP Part II</i>	Get better performance by knowing your bandwidth! - Experiences from CPU, GPU and Xeon Phi <i>30 min, Hans Henrik B. Sørensen, DTU Computing Center, Technical University of Denmark</i> <i>60 min, Lab: Intel XeonPhi</i>	
19:00 -			Social event in Palladion Schmiedstraße 3		