



	Introduction Serial Programming, Tuning, Processor Architectures	Message Passing with MPI	Shared Memory Programming with OpenMP	GPGPU Programming with OpenACC	Intel Xeon Phi, Code tuning
	Mo, March 11	Tu, March 12	We, March 13	Th, March 14	Fr, March 15
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>	GPU Introduction, OpenACC Basics <i>S. Wienke, RWTH</i>	Programming the Intel® Xeon Phi™ Coprocessor <i>T. Cramer, 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: OpenACC	Lab: Intel Xeon Phi, Bring your code tuning (not only for Xeon Phi)
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>	OpenACC Advanced Case Study <i>70 min., S. Wienke, RWTH</i> <i>20 min., P. Springer, RWTH</i>	Lab: Intel Xeon Phi, Bring your code tuning (not only for Xeon Phi)
15:30 - 16:00	coffee break		coffee break	coffee break	
16:00 - 17:30	The RWTH Compute Cluster <i>25 min., T. Warschko, Bull</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>	OpenMP Programming on ScaleMP <i>25 min., Dirk Schmidl, RWTH</i> Misc. Advanced OpenMP Programming <i>20 min., C. Terboven, RWTH</i> <i>45 min., Lab: OpenMP Part II</i>	Outlook on OpenMP for Accelerators <i>30 min., C. Terboven, RWTH</i> <i>60 min., Lab: OpenACC</i>	
19:00 -			Social event in Palladion Schmiedstraße 3		