

Young Researchers Meeting & MOS Workshop

Groß Schwansee 2022

Time	Monday, 21.03.22	Tuesday, 22.03.22
09:30 - 10:00		Goetz, C. (UHH): <i>Academic Career Q&A</i>
10:00 - 10:30		
10:30 - 11:00	Welcome and introduction to YRM Scientific speed dating & Coffee	<i>Coffee break</i>
11:00 - 11:30		Peters, M. (Springer Verlag)
11:30 - 12:00		
12:00 - 12:30	<i>Lunch</i>	<i>Lunch</i>
12:30 - 13:00		
13:00 - 13:30	Angel, J. (TUHH): <i>Bathymetry Reconstruction for the Shallow Water Equations</i>	Welcome and Introduction to the Workshop Invited lecture
13:30 - 14:00	Bakthi, H. (UHH): <i>Modeling and simulation of parabolic trough power plant using various heat transfer fluids and nanofluids: Application to NOOR I plant in Ouarzazate, Morocco</i>	Hinze, M. (Uni Koblenz-Landau): <i>Adaptive construction concepts for the prediction horizon in MPC of PDE systems</i>
14:00 - 14:30	Blanke, S. (UHH): <i>Motion Compensation for Magnetic Particle Imaging using an FFL-Scanner</i>	Kahle, C. (Uni Koblenz-Landau): <i>Optimal control of sliding droplets using the contact angle</i>
14:30 - 15:00	<i>Coffee break</i>	Ranocha, H. (UHH): <i>Analysis Meets Data: Efficient Implementation and Optimized Time Integration Methods with Automatic Step Size Control for Compressible Computational Fluid Dynamics</i>
15:00 - 15:30	Beddig, R. (TUHH): <i>An error-based low-rank correction for pressure Schur complement preconditioners</i>	<i>Coffee break</i>
15:30 - 16:00	Schmidt, N. (CAU): <i>Iterative solver for ice models</i>	Philippi, B. (CAU): <i>Parareal for Fluid Flow Problems</i>
16:00 - 16:30	Social activities	Slawig, T. (CAU): <i>Micro-macro parallel-in-time computations for turbulent flow with OpenFOAM</i>
16:30 - 17:00		Albrecht, K. (TUHH): <i>Greedy methods for kernel-based generalized interpolation and their application to computerized tomography</i>
17:00 - 17:30		Free time / social activities
17:30 - 18:00		
18:00	<i>Dinner</i>	<i>Dinner</i>

Time	Wednesday, 23.03.22	Thursday, 24.03.22
09:00 - 09:30	Invited Lecture	Invited Lecture
09:30 - 10:00	Borzi, A. (JUM Würzburg): <i>Investigation of optimal control problems governed by kinetic models</i>	Welker, K. (HSU): <i>Constrained shape optimization in shape spaces: Models raising from PDE to VI constraints and from deterministic to stochastic settings</i>
10:00 - 10:30	Bleitner, F. (UHH): <i>Lower bounds for the advection-hyperdiffusion equation</i>	Radtke, L. (TUHH): <i>Parameter-free shape optimization: Glimpses on sensitivities, gradients and metric for engineers</i>
10:30 - 11:00	Coffee break	Coffee break
11:00 - 11:30	Braack, M. (CAU): <i>Outflow conditions for incompressible and Boussinesq flow</i>	Herbert, P. : <i>A novel $W^{1,\infty}$ approach to shape optimization with Lipschitz domains</i>
11:30 - 12:00	Behrens, J. (UHH): <i>Reflections about uncertainty</i>	Invited Lecture
12:00 - 12:30	Lunch	Schulz, V. (Uni Trier): <i>On Algorithmic Shape Optimization</i>
12:30 - 13:00		Closing and resume
13:00 - 13:30	Wyscha, H. (UHH): <i>Towards computing p-harmonic descent directions and their limits in shape optimization</i>	Lunch and Departure
13:30 - 14:00	Schlegel, L. (Uni Trier): <i>Shape Optimization for the Mitigation of Coastal Erosion via Smoothed Particle Hydrodynamics</i>	
14:00 - 14:30	Sharma, K. (UHH): <i>Numerical simulation of an idealized coupled ocean-atmosphere model</i>	
14:30 - 15:00	Coffee break	
15:00 - 15:30	Suchan, T. (HSU): <i>Optimization of multiple shapes for a fluid-mechanical problem</i>	
15:30 - 16:00	Müller, M. (TUHH): <i>Application of p-Laplacian relaxed steepest descent to technical free surface flows</i>	
16:00 - 16:30	Invited lecture	
16:30 - 17:00	Padberg-Gehle, K. (Leuphana Uni Lüneburg): <i>Identification and characterization of coherent behavior in flows</i>	
17:00 - 17:30	Free time / social activities	
17:30 - 18:00		
18:00	Dinner	