

MATH MEETS INDUSTRY October 5, 2022

	09.00 am – 09.30 am	Registration and Welcome
Chairperson: Christian Rohde	09.30 am – 09.45 am	Opening
	09.45 am – 10.15 am	Keynote Lecture: Jörg Fehr (University of Stuttgart, ITM) <i>“Industrial Consortium SimTech - Examples of Joint Research between Academia and Industry; Model Reduction, Virtual Commissioning and Vehicle Safety”</i>
	10.15 am – 10.45 am	Keynote Lecture: Johannes von Keler (Robert Bosch GmbH) <i>“Application of uncertainty quantification and statistical validation to quantify the credibility of simulations for virtual engineering”</i>
	11.00 am – 11.30 am	Keynote Lecture: Andrea Beck (University of Stuttgart, IAG) <i>“When Machine Learning meets Computational Fluid Dynamics...”</i>
	11.30 am – 12.00 pm	Keynote Lecture: Uwe Iben, Maren Geisel, Daniel Kreuter (Robert Bosch GmbH) <i>“TorchPhysics – Python library for Physics Informed Neural Networks”</i>
	Chairperson: Uwe Iben	01.30 pm – 02.00 pm
02.00 pm – 02.30 pm		Keynote Lecture: Bernard Haasdonk (University of Stuttgart, IANS) <i>“Kernel Methods for Efficient Surrogate Modelling”</i>
02.30 pm – 03.00 pm		Keynote Lecture: André Gerlach, Jona Eisele (Robert Bosch GmbH) <i>“Artificial Intelligence for sensor systems in acoustics”</i>
03.00 pm – 03.30 pm		Keynote Lecture: Bernadette Hahn-Rigaud (University of Stuttgart, IMNG) <i>„Dynamic inverse problems and their applications in imaging“</i>
Chairperson: Michael Schick	04.00 pm – 04.05 pm	Opening Science Slam
	04.05 pm – 04.15 pm	Science Slam: Maximilian Hörl (University of Stuttgart, IANS)
	04.17 pm – 04.27 pm	Science Slam: Samuel Burbulla (University of Stuttgart, IANS)
	04.29 pm – 04.39 pm	Science Slam: Matthew Millard (University of Stuttgart, INPSO & ITM)
	04.41 pm – 04.51 pm	Science Slam: Siddharth Sriram (University of Stuttgart, MIB)
	04.53 pm – 05.03 pm	Science Slam: Johannes Rettberg (University of Stuttgart, ITM)
	05.05 pm – 05.15 pm	Science Slam: Lars von Wolff (University of Stuttgart, IANS)
	05.17 pm – 05.27 pm	Science Slam: Fabian Zills (University of Stuttgart, ICP)
	05.29 pm – 05.39 pm	Science Slam: Patrick Buchfink (University of Stuttgart, IANS)
	05.41 pm – 05.51 pm	Science Slam: Sanath Keshav (University of Stuttgart, MIB)
05.55 pm – 06.10 pm	Award Ceremony Science Slam	
	06.15 pm	Get Together



MATH MEETS INDUSTRY October 6, 2022

	09.00 am – 09.30 am	Welcome with Coffee
Chairperson: Veronika Schleper	09.30 am – 10.00 am	Keynote Lecture: Andreas Klein (Robert Bosch GmbH) <i>“Connecting different abstraction levels: a major challenge in physical modeling”</i>
	10.00 am – 10.30 am	Keynote Lecture: Dominik Göddeke (University of Stuttgart, IANS) <i>“A cross-platform, high-performance SPH toolkit for image-based flow simulations on the pore scale of porous media”</i>
	10.30 am – 11.00 am	Keynote Lecture: Oliver Lenord, Andreas Klein, Alexander Fischer (Robert Bosch GmbH) <i>“Physics-inspired neural network architecture to accelerate solving non-linear PDE problems in fluid dynamics”</i>
	11.15 am – 11.45 am	Results from the Student’s Competition
	11.45 am – 12.00 pm	Award Ceremony Student’s Competition
	12.00 pm	Closing

