



Karman-Conference on

Sustainable Computational Science and Engineering 2025

March 16, 2025 – March 19, 2025, **Steinfeld Abbey, Eifel, Germany**

Keynote Speakers

Ann S. Almgren, Lawrence Berkeley National Laboratory, USA

Keynote Talk: **Finding the Sweet Spot: the Evolution (and Future) of AMReX**

Jens Saak, Max-Planck Institute for Dynamics of Complex Technical Systems, Germany

Keynote Talk: **On the many facets of sustainability in scientific computing**

Stefanie Betz, Furtwangen University, Germany

Keynote Talk: **TBA**

Bruce Hendrickson, Lawrence Livermore National Laboratory, USA

Keynote Talk: **Reducing the Environmental Impact of High Performance Computing: a Systems Perspective**

Zahra Lakdawala, Fraunhofer Institute for Wind Energy Systems, Germany

Keynote Talk: **On cost-effective and sustainable high fidelity numerical wind resource assessment**

William S. Moses, University of Illinois Urbana-Champaign, USA

Keynote Talk: **EnzymeMLIR: Combining Differentiation with High-Level Optimization**

Matthias Rauter, QT Group, Norway

Keynote Talk: **If I have seen further, it is by using others' code - Sustainable programming in academia**

Miriam Schulte, University of Stuttgart, Germany

Keynote Talk: **Sustainable Software for Multi-Physics and Multi-Scale Simulations**



www.sustainable-cse.org

Organizers

Julia Kowalski	RWTH Aachen	Methods for Model-Based Development in Computational Engineering	Michael Schlotte-Lakemper	University Augsburg	High-Performance Scientific Computing
Uwe Naumann	RWTH Aachen	Software and Tools for Computational Engineering	Anke Schmeink	RWTH Aachen	Theoretical Information Technology
Abigail Morrison	RWTH Aachen and Research Center Jülich	Neural Computation	Katharina Schmitz	RWTH Aachen	Fluid Power Drives and Systems
Bernhard Rumpe	RWTH Aachen	Software Engineering	Robert Speck	Research Center Jülich	Mathematics and Education
			Manuel Torrilhon	RWTH Aachen	Applied and Computational Mathematics