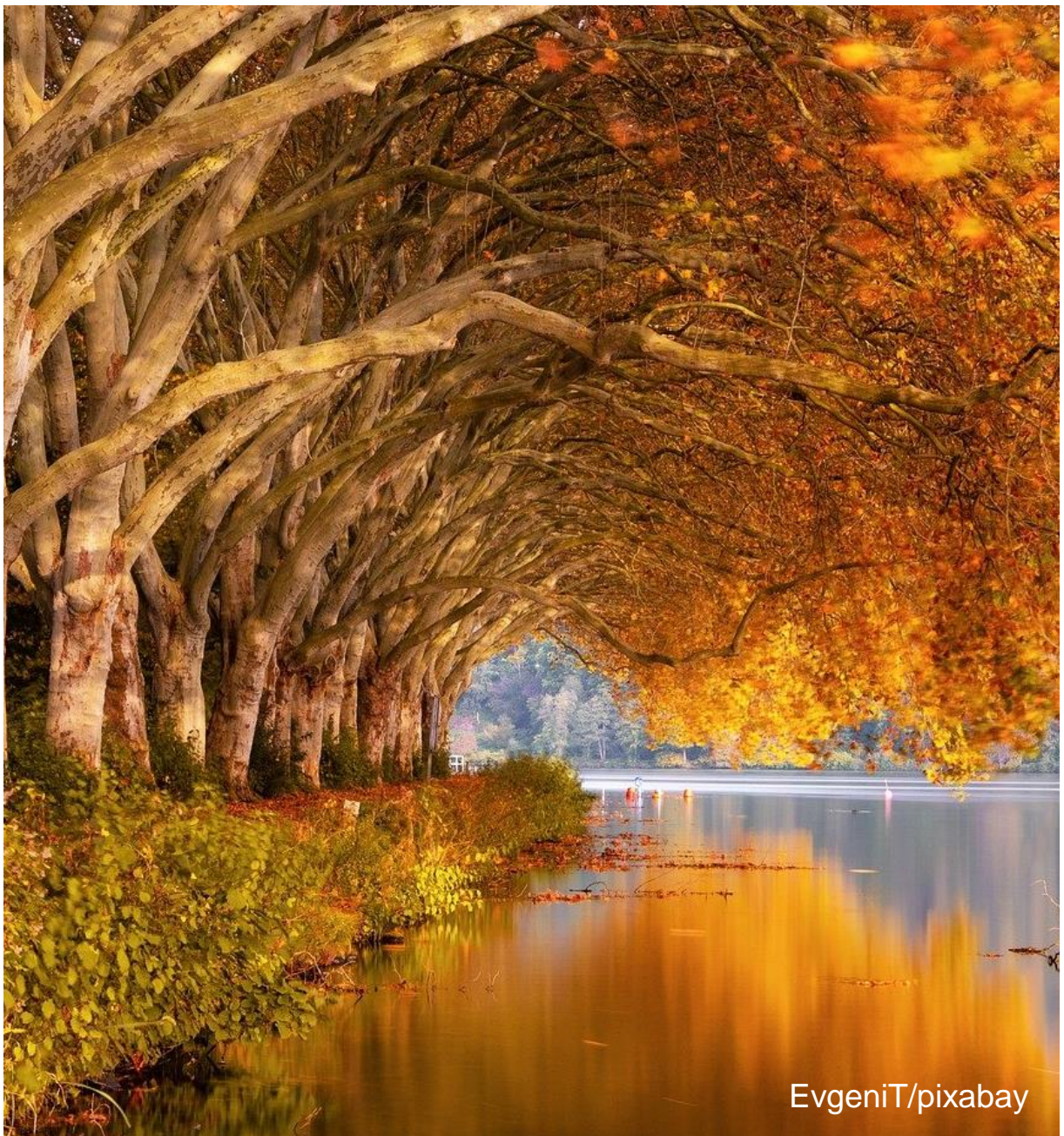


Program IGSSE Martini Colloquium

12 November 2021



3:30 PM

Welcome and recap of developments and opportunities at IGSSE
Prof. Barbara Wohlmuth | IGSSE Director

3:50 PM

to

4:45 PM

IGSSE Project Team presentations

- Prof. K.-U. Bletzinger (ED) Filtered adjoint-based techniques for mesh optimization to enable predictive wind field assessment in complex environments, *ATMOPACE*
- Prof. F. Einsiedl (ED) and Prof. M. Schloter (WZW) Reducing nitrate-contamination in oxic groundwater systems by stimulating hydrogen (H₂)-oxidizing denitrifiers, *HEALTHY-Water*
- Prof. S. Eyerich (ZAUM) Single-cell analysis enhanced molecular diagnostics, *SCAMDI*
- Prof. E. Sonnendrücker (MA) Geometric Methods for Kinetic Equations, *GEMKIN*

4:50 PM

5:20 PM

1st poster session in dedicated breakout rooms

5:25 PM

Keynote: “AI and Data Science in Earth Observation: How it helps to create a sustainable world”
Prof. Xiaoxiang Zhu

5:50 PM

to

7:05 PM

IGSSE Project Team presentations

- Prof. C. Stemmer (ED) Numerical investigations on high-temperature effects on hypersonic transitional flows, *HT2*
- Prof. S. Berensmeier (ED) Peptide binding and release: Combining drug delivery and protein purification, *PebBIR*
- Prof. R. Moeckel (ED) Congestion-Impacted Accessibilities and Economic Performance Evaluation, *CAPE*
- Prof. J.-W. van de Kuilen (WZW) and Prof. Fabian Duddeck (ED) Multi-fidelity Failure Modeling and Optimization for Natural Fiber Structures in Complex Environments, *FaiMONat*

7:10 PM

7:40 PM

2nd poster session in dedicated breakout rooms