



Workshop on thermodynamic modeling

Connecting Theory and Application: Tackling Challenges in Surface

Complexation and Reactive Transport Modeling

What?

With this workshop, we aim to provide an opportunity to discuss your work in progress, as well as your current challenges and open questions, with other PhD students, postdocs, and senior scientists. You will be working on thermodynamic modeling approaches to tackle issues such as surface complexation, surface precipitation, ion exchange, incorporation, and reactive transport. We aim to pose and answer questions together, addressing topics such as competitive sorption, kinetics, dissolution, and precipitation reactions. Other interesting topics such as sensitivity and uncertainty analysis, inverse modeling will also be discussed, and we want to address issues such as databases and problems related to parameter derivation from raw data, e.g., overparameterization and parameter correlation.

The workshop offers networking opportunities for young and senior scientists, keynote talks, and participants are encouraged to present their research highlighting current questions and challenges. Depending on the abstracts submitted and the open questions posed, we plan to offer time and space for discussions in smaller groups.

When? 12th -14th May 2025 (2 days)

Where? GRS gGmbH, Theodor-Heuss-Str. 4, 38122 Braunschweig, Germany

Who? PhDs, Postdocs, and senior scientists. Capacity: 20 participants

Highlights

Exchange and connect with other PhDs and senior scientists.

Explore practical applications of your research in surface complexation and reactive transport.

Gain valuable insights from current case studies of other participants.

Participate in problem-solving sessions with interactive group work.

Tackle open questions.

Registration details

Deadline for registrations and submission of abstracts (ca. 350 words) for oral/poster presentations is 31st March 2025. Please send a mail to susan.britz@grs.de.

Early registration is encouraged, as the workshop is limited to 20 participants.

Note: Registration is free of charge.

The workshop agenda is still under development. We will follow up with more details at the end of March 2025.

Need help?

Please contact: Susan Britz (susan.britz@grs.de)

We hope to see you soon!

Best regards, Susan and Julian

On behalf of the organizing team:

Susan Britz (susan.britz@grs.de)

Julian Fricke (julian.fricke@grs.de)

Jessica Lessing (j.lessing@hzdr.de)

Stephan Hilpmann (s.hilpmann@hzdr.de)

Vinzenz Brendler (v.brendler@hzdr.de)

Moritz Schmidt (moritz.schmidt@hzdr.de)

Johannes Lützenkirchen (johannes.luetzenkirchen@kit.edu)

Bahram Hosseinimonjezi (bahram.hosseinimonjezi@kit.edu)