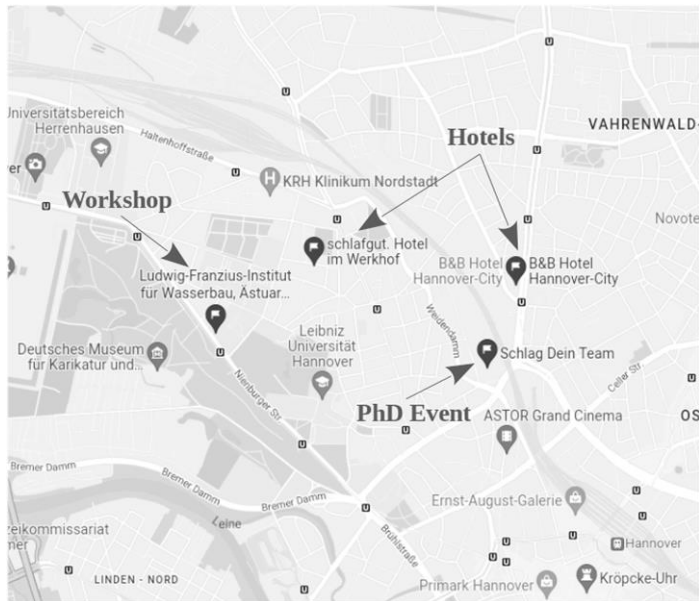## Venue

Workshop location: Leibniz University Hannover, Nienburger Straße 4

PhD Event: Schlag dein Team, Weidendamm 2

Dinner: Brauhaus Ernst August, Schmiedestraße 13

Many thanks…

URS 2022

Student Workshop on Repository Uncertainty

SEPTEMBER 8 - 9, 2022 • IN-PERSON • HANNOVER

Program Booklet

September 8th, 2022

Time	Topic	Presenter
13:00	Registration / Welcome	
13:30	Beginning and introduction to the workshop and the URS project	Kata Kurgyis
14:00	Risk-based assessment of salt domes as disposal sites for nuclear waste	Andrea Perin
14:15	Risk-based assessment of salt domes as disposal sites for nuclear waste	Jonas Suilmann
14:30	Uncertainties in THM-coupled integrity calculations	Aqeel A. Chaudhry, Feliks Kiszkurno, Chao Zhang
15:00	*Coffee break*	
15:30	Repository safety: uncertainties and regulatory aspects	Friedrich Englisch, Marcus Frenzel, Fabian Fritsch
15:45	A set of long-term climate change scenarios	Christine Kaufhold
16:00	Reduction of scenario uncertainties through climate models	Marc Johnen
16:15	Building blocks for the quantification of uncertainties in geological models - online	Carlos Colombo
16:30	Closing remarks	Wolfram Rühaak, Phillip Kreye
18:30	**PhD Event** – Schlag dein Team	
20:00	**Dinner** at Brauhaus Ernst August	

September 9th, 2022

Time	Topic	Presenter
8:00	Welcome to 2. Workshop day	Kata Kurgyis
8:30	Improving the predictive quality of repository-relevant simulations through optimal data acquisition and smart monitoring	Maria Morales
8:45	Improving the predictive quality of repository-relevant simulations through optimal data acquisition and smart monitoring	Nino Menzel
9:00	Improving the predictive quality of repository-relevant simulations through optimal data acquisition and smart monitoring	Qian Chen
9:15	Comparing uncertainty quantification methods for modelling radionuclide transport in nuclear waste disposal	Merle Bjorge
9:30	*Coffee break*	
9:45	Enhanced Bayesian Network for Reliability Assessment	Andrea Perin
10:00	Variable density and viscosity flow in nuclear waste disposal	Jonas Suilmann
10:15	OpenGeoSys – Workflow and other useful tools for PhD researchers	Aqeel A. Chaudhry, Feliks Kiszkurno, Chao Zhang
10:45	*Coffee break*	
11:15	Software, tools and other resources for PhD students	Christine Kaufhold
11:30	Reducing modelling uncertainties with parameter variations and sensitivity analysis	Marc Johnen
11:45	GemPy: Open-source software for implicit 3D structural geological modeling in Python	Carlos Colombo
12:00	*Coffee break*	
12:15	Surrogate model generation using Gaussian process regression and Bayesian active learning	Maria Morales
12:30	Geophysical modeling and inversion with PyGiml	Nino Menzel
12:45	Modelling of radionuclide transport process using SHEMAT-Suite	Qian Chen
13:00	Closing of the workshop and farewell	