

Course Fee

The course fee for the PhD Summer School „Risk and Uncertainty“ is **350 EUR**. This fee includes lunch and participation to all events, except the excursion and the optional Workshop on Friday.

Bauhaus-Universität Weimar

Research Training Group 1462

Model Quality Assessment
Faculty of Civil Engineering

The **PhD Summer School** is a series of academic programmes organized annually in rotation with the following three PHD Research Groups:

- DFG GRK 1462 "Evaluation of Coupled Numerical and Experimental Partial Models in Structural Engineering", Bauhaus-Universität Weimar
- DFG SFB 837 "Interaction Modeling in Mechanized Tunneling", Ruhr-Universität Bochum
- Vienna Doctoral Programme for the Exploration of Complex Water resources, Vienna University of Technology



Please find registration form and information about application procedure at the link below. Registration deadline is **30 June 2013**.
www.uni-weimar.de/summerschool/register

PhD Summer School 2013

Risk and Uncertainty

26 - 29 August 2013
Lecture Room C
Marienstraße 13

Outline

Our **International Summer School** will be devoted to the topic „Risk and Uncertainty.“ International experts are invited to train PhD candidates in the fields:

- Uncertainty Quantification and Meta-Modelling,
- (Model-based) Design of Experiments,
- Risk, Reliability, Maintenance & Evaluability,
- Forecast Verification and Validation and
- Experimental Modeling and Simulation.

Optional: Excursion to a construction site in Thuringia will reveal the relation between research and applied engineering. (one afternoon) | one day - workshop focussing on discussions on the topic: Scientific Basics – Practical Challenges. (30th of August)
Please contact us, if you are interested in one of these two offerings.

Course Topics

[Rating of Optimization Techniques & Geotechnical Applications](#) | Prof. T. Schanz, Ruhr-Universität Bochum | [Meta-Modelling, Global Sensitivity Analysis and Probabilistic Analysis of Failure in Mechanized Tunneling](#) | M.Sc. Shorash Miro, Ruhr Universität Bochum | [Structural Performance Assessment and Prediction](#) | Prof. A. Strauß, Universität für Bodenkultur Wien | [Learning, Fusing & Assessing Models with Bayesian Methods](#) | Prof. D. Straub, Technische Universität München | [Integrated Deterministic & Probabilistic Safety Analysis: Methods and Case Studies](#) | Dr. F. Di Maio, Politecnico di Milano | [Operational Ensemble Forecasting in Meteo-Hydrology: from Implementation to Verification](#) | Dr. F. Pappenberger, ECMWF | [Imprecise Probabilities in Engineering](#) | Prof. M. Beer, University of Liverpool | [Mathematical Surrogate Models for Engineering Applications](#) | Dr. T. Most, Dynardo | [Inverse Modelling - Analysis of Contact Stress and Heat Flux During Rolling Process](#) | Dr. Daniel Weisz-Patrault, Ecole Ponts Paris Tech | [Numerical Simulation with Uncertain Data in Mechanized Tunneling](#) | Dr. Steffen Freitag, Ruhr-Universität Bochum | [Toward Optimal Experiment Design for Parameter Estimation in Linear Systems with Spatio-Temporal Dynamics](#) | Prof. E. Rafajłowicz, Wrocław University of Technology

Registration and Housing

Online registration at www.uni-weimar.de/summerschool/register by **30 June 2013**.

For the PhD Summer School we request each member to book their rooms for the period of their stay individually. We recommend the following:

Hostels | Labyrinth Hostel, Goetheplatz 6;
Jugendgästehaus Maxim Gorki, Zum Wilden Graben 12

Youth Hostels | Germania, Carl-August-Allee 13; Poseckscher Garten, Humboldtstr. 17

Once registered, each participant will get a detailed programme for the entire week and more information, including details to extra events and activities.

Contact

Spokesperson:
Prof. Dr.-Ing. habil. Frank Werner

Organisation Committee:
Dipl.-Ing. Dipl.-Ing. Maximilian Huber | Prof. Dr. rer. nat. Tom Lahmer | Dipl.-Ing. Idna Wudtke

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