AiKW @ Institute of Metal Forming
TU Bergakademie Freiberg

Est. 1928 and currently headed by
Prof. Dr.-Ing. Ulrich Prahl

The IMF is specialised in research and education from material science to forming technology. Moreover, the International Center for Groove Pass Design (IKZ) is established in 2017 at the IMF and represents an open platform for knowledge retention, research and professional trainings in groove rolling.

Program

10.00 h Welcome presentation at the IMF

10.30 h Possibilities to choose between two visiting tours

1. Long Institute tour from material characterization to rolling technology (including rolling trials, demonstration of measurement technology and example specimens)
   hot forming simulator Gleeble, Bähr multiaxial hot deformation test, semi-continuous rolling line, Mg-rod casting-rolling line, and others

2. Simulation approaches @ the IMF: MiViA and PyRolL

12.00 h Return to conference hotel

PyRolL
simulation framework for groove pass design

- Fast simulation approaches for groove rolling
- Open source availability
- Flexible Plug-In System

www.tu-freiberg.de/
fakult5/imf/institut/pyroll

MiViA
AI powered material analysis

- Self-learning autonomous microstructure analysis system based on an AI-Engine
- Reproducible, stable and fast quantitative analysis results
- Simple analyses of the microscope images via web app

www.tu-freiberg.de/
fakult5/imf/forschung/mivia

More information: www.tu-freiberg.de/fakult5/imf