Problem: Erosion is a process of essential implications for the pump industry for financial losses

Approach: Evaluate analytical models and transfer these into a numerical simulation tool; erosion onset can pre-selecting appropriate materials

Results: Erosion can be simulated analytically and numerically

The FE-Model forecasts incubation time + applicable operation ranges

Outlook: Extended prediction abilities, especially erosion rates for material qualification

Dr. A. Krebs: Simulation of Erosion Begin for MMCs