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EINLADUNG

zum Vortrag von Herrn

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über

"Multiphase Flow Modelling From Bath Tubs to Avalanche Bags"

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“Multiphase Flow Modelling From Bath Tubs to Avalanche Bags”

DI. Dr. Stefan PIRKER

In multiphase flows a multitude of interesting and sometimes unexpected flow phenomena can be encountered. Even in times of comfortable general purpose CFD software and ever increasing computer resources simulating these phenomena provides major challenges. Most multiphase flow situations are too complex for straight forward numerical modelling. Rather multiphase flow simulations should always be done with great care and most favourably in combination with dedicated experiments.

In this presentation some examples of multiphase flow modelling in the field of metallurgical flows, environmental flows and particulate flows are presented. Thereby, successful modelling approaches are presented as well as failures. All of these application driven research activities are further linked to their sometimes surprising multiphase flow core phenomenon.