

Seminar series of the Graduate School GRK 2078

Referee: **Eike Reinhardt, Dr.-Ing. Frank Burbulla**
Simulation Karosseriesystem
Dr. Ing. h. c. F. Porsche AG

Date: Tuesday, June 13, 2023

Time: 14:00h

Location: Building 10.23, 3rd floor, seminar room 308.1
Please note that you can also participate in the event online

Title: **Using Micromech & Consideration of Fiber Orientation of Thermoplastics in Whole Vehicle Crash Simulations**

Abstract

The subject of observation is the influence of considering process parameters in the simulation. This is done using the example of a pressure accumulator in the air suspension of an electrically powered sports car in the relatively new crash load case called “small overlap”. Results obtained using simple von Mises material models are compared with those obtained using complex transversal-orthotropic and completely anisotropic approaches. Furthermore, I want to go into the possibility of scaling micromechanical material models with regard to the adjustment of fiber contents.

You are cordially invited to take part in the event.

Prof. Dr.-Ing. Thomas Böhlke
(Spokesperson of GRK 2078)