Dr. Eberhard Diegele holds university degrees in Mathematics, Physics and Mechanical Engineering.
For three decade employed by the Karlsruhe Institute of Technology (KIT), Germany, he was working in several capacities and different research areas.

Working in the field of material-design interface, his areas include in particular:
Mechanical engineering (design and lifetime assessment of first wall, blanket and divertor components), material modelling (formulation of constitutive equations for deformation and damage, large deformation plasticity theories), fracture mechanics, small scale test technology development, FW mock-up testing, stochastic modelling (micro-mechanical modelling of damage behaviour of martensitic steels), probabilistic lifetime assessment of brittle materials and structures.

He was seconded to European Fusion Development Agreement (EFDA) in Garching, Fusion for Energy, Barcelona, and EUROfusion Programme Management Unit, Garching, and for five years, each, as scientific-administrative responsible for “materials” in DEMO or TBM design teams.