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Curriculum

Dr.-Ing. Thomas Jordan, born in Munich, Germany in 1963, is mechanical engineer who has worked in the fields of computational fluid dynamics, structural mechanics and coupled electromagnetics at the Forschungszentrum Karlsruhe since 1989. There he received his doctoral degree „Coupling of electromagnetics and structural dynamics in a fusion reactor blanket“ in 1994. Until 2001 he worked in the fields of plasma physics and continuum damage mechanics. He contributed to the working group for safety and environmental impact of fusion reactors group and was involved in the coordination of the EU fission reactor safety projects RPVSA and LISSAC, and of two post-SMiRT conferences on the structural integrity of reactor containments. In 2001 he founded the spin-off optimiSE for process optimization via data mining in the semiconductor industries.
In late 2003 he returned to the Forschungszentrum to coordinate the EC Network of Excellence HySafe and founded the International Association for Hydrogen Safety IA HySafe in 2009. Currently he is elected president of IA HySafe.
Since 2005 he is member of the organising and scientific committee of the International Conference for Hydrogen Safety ICHS and is teaching “Hydrogen Technologies” at the Karlsruhe Institute of Technology KIT and at the Instituto Technico Buenos Aires, Argentina. Since 2012 he is visiting professor at the University of Ulster, UK.
Since 2009 he is heading the hydrogen group at the Institute for Nuclear and Energy Technologies of KIT, where he is coordinating the European pre-normative research project PRESLHY for the safe use of liquid hydrogen.
Currently he is member in the IEA Hydrogen Safety Task and in the FCH 2 JU Regulation Codes and Standards Strategy Coordination Group.
Author > 100 publications and co-editor of two books related to hydrogen safety, in particular flame acceleration, DDT and risk assessments for nuclear and non-nuclear systems.