Dr. Ernst-Arndt Reinecke *ORCID: 0000-0003-1414-9183*

Current positions

Deputy Director of Institute of Energy and Climate Research (IEK-6) Reactor Safety, FZJ (since 2016)
Head of Division "Safety Research" at IEK-6, FZJ (since 2017)
Head of Group "Hydrogen and Aerosol Behavior" at IEK-6, FZJ (since 2017)

Previous positions (two selected)

Head of Group "Containment Phenomena and Processes" at IEK-6, FZJ (2007-17)
Head of Group "Hydrogen Safety" at IEK-6, FZJ (2002-07)

Scientific degree

Dr.-Ing. (PhD) in Mechanical Engineering, RWTH Aachen University (1999)

Recent research topics	Operational behavior of passive auto-catalytic recombiners, Hydrogen mitigation in nuclear power plants, Hydrogen safety
Memberships	Member of the European Hydrogen Safety Panel of the European Fuel Cells and Hydrogen Joint Undertaking (since 2018)

Publications (5 most important)

- **E.-A. Reinecke**, K. Takenaka, H. Ono, T. Kita, M. Taniguchi, et al., Performance tests of catalysts for the safe conversion of hydrogen inside the nuclear waste containers in Fukushima Daiichi, *Proc. Int. Conf. Hydrogen Safety (ICHS2019)*, Adelaide, Australia, September 24-26, 2019
- **P.-M. Steffen**, **E.-A. Reinecke**, **S. Kelm**, A. Bentaib, […], **H.-J. Allelein**, Prevention of hydrogen accumulation inside the vacuum vessel pressure suppression system of the ITER facility by means of passive auto-catalytic recombiners, *Int. J. Hydrogen Energy* 44, 8971 (2019) doi.org/10.1016/j.ijhydene.2018.07.039
- **J. Baggemann**, **W. Jahn**, **S. Kelm**, **E.-A. Reinecke**, **H.-J. Allelein**, Numerical study on the influence of different boundary conditions on the efficiency of hydrogen recombiners inside a car garage, *Int. J. Hydrogen Energy* 42, 7608 (2017) doi.org/10.1016/j.ijhydene.2016.04.084
- **E.-A. Reinecke**, **S. Kelm**, **P.-M. Steffen**, **M. Klauck**, **H.-J. Allelein**, Validation and application of the REKO-DIREKT code for the simulation of passive auto-catalytic recombiners (PARs) operational behavior, *Nucl. Technol.* 196/2, 355 (2016) doi.org/10.13182/NT16-7
- **E.-A. Reinecke**, A. Bentaïb, J. Dornseiffer, D. Heidelberg, […], **H.-J. Allelein**, A first orienting investigation of the interaction of cable fire products with passive auto-catalytic recombiners (PARs), *Nucl. Technol.* 196/2, 367 (2016) doi.org/10.13182/NT16-4