

**Current positions**

Project Leader of the Work Package on Tritium, Matter Injection, Vacuum in EUROfusion (WP TFV) (since 2014)

Technical Responsible Officer for Fusion Technology in the JT60-SA EU Research Unit (since 2012)

Lecturer Vacuum Science and Technology, KIT (since 2008)

Head of the Vacuum Technology Department at Institute for Technical Physics, KIT (since 2006)

Previous position

Group Leader Cryopumping at KIT (Forschungszentrum Karlsruhe) (1998-2005)

Scientific degree

Dr.-Ing. (PhD) in Thermodynamics and Process Engineering University Karlsruhe (1995)

Recent research topics

Tritium technology; Vacuum physics; Fuel cycle concepts for fusion power plants; Vacuum gas dynamics; Cryopumping

Awards, honors, memberships

European Prize for Innovation in Fusion Research (2014)

Member of the F4E Technical Advisory Panel (TAP) (since 2016)

Publications (5 most important)

- **Chr. Day**, B. Butler, **T. Giegerich**, B. Ploeckl, **S. Varoutis**, A smart three-loop fuel cycle architecture for DEMO, *Fusion Eng. Des.* (2019) [doi:10.1016/j.fusengdes.2019.04.019](https://doi.org/10.1016/j.fusengdes.2019.04.019)
- **Chr. Day**, B. Butler, **T. Giegerich**, P.T. Lang, R. Lawless, et al., Consequences of the technology survey and gap analysis on the EU DEMO R&D programme in tritium, matter injection and vacuum, *Fusion Eng. Des.* 109-111, 299 (2016) [doi:10.1016/j.fusengdes.2016.03.008](https://doi.org/10.1016/j.fusengdes.2016.03.008)
- **Chr. Day**, **C. Gleason-Gonzalez**, **V. Hauer**, **Y. Igitkhanov**, D. Kalupin, et al., Towards a physics-integrated view on divertor pumping, *Fusion Eng. Des.* 89, 1505 (2014) [doi:10.1016/j.fusengdes.2014.04.077](https://doi.org/10.1016/j.fusengdes.2014.04.077)
- **Chr. Day**, **T. Giegerich**, Development of Advanced Exhaust Pumping Technology for a DT Fusion Power, *IEEE T. Plasma Sci* 42, 1058 (2014) [doi:10.1109/TPS.2014.2307435](https://doi.org/10.1109/TPS.2014.2307435)
- **Chr. Day**, Vacuum Technology, Ullmann's Encyclopedia of Industrial Chemistry, Wiley, Weinheim (2014) [doi:10.1002/14356007.b03_21.pub2](https://doi.org/10.1002/14356007.b03_21.pub2)