Pt/Pd: De- und Reactivation - DOC
FVV-Project 1141

- **Material:** Diesel Oxidation Catalyst (DOC) with Pt and Pd as active metals
- **Objective:** Impact of composition, aging, and oxidation state of the active components on characteristic properties and reaction kinetics

**Work**
- Characterization and kinetic studies of fresh and aged Pt-DOC, Pd-DOC and Pt/Pd-DOC
- Development and validation of kinetic model for aged Pd-DOC and Pt/Pd-DOC

**Results**
- Very complex morphology of fresh and aged Pt/Pd DOC found
- Particle size distribution and metal composition and in-particle spatial distribution varies and changes during aging
- Kinetic parameters of Pt/Pd catalyst need to be estimated separately and can not be deducted from Pt- and Pd-only parameters

In Collaboration with Prof. Nieken, ICVT, U Stuttgart

Prof. O. Deutschmann, Prof. J.-D. Grunwaldt