

## Markus Dietrich defended his doctoral thesis

### Congratulations!

Markus Dietrich defended his doctoral thesis about “Application of radio frequency-based techniques to monitoring and control SCR catalysts” (German original title “Anwendung der hochfrequenzgestützten Zustandsdiagnose zur Überwachung und Regelung von SCR-Katalysatoren”) on December 13<sup>st</sup>, 2017.

The research work for his dissertation was conducted at the Department of Functional Materials in the framework of a joint cooperation with the automotive industry.

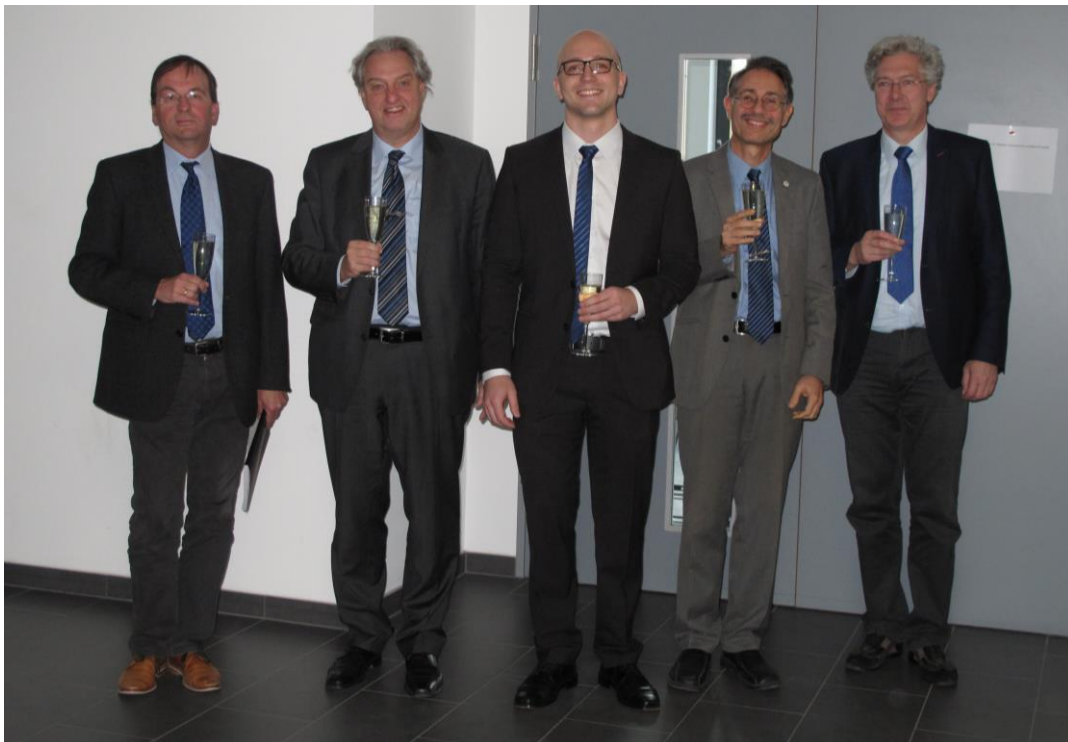
Dr. Dietrich already published parts of his thesis. Three examples out of several are:

M. Dietrich, C. Steiner, G. Hagen, R. Moos: Radio-Frequency-Based Urea Dosing Control for Diesel Engines with Ammonia SCR Catalysts, *SAE International Journal of Engines*, **10**, 1638-1645 (2017), doi: 10.4271/2017-01-0945

M. Dietrich, G. Hagen, W. Reitmeier, K. Burger, M. Hien, P. Grass, D. Kubinski, J. Visser, R. Moos: Radio-Frequency-Controlled Urea Dosing for NH<sub>3</sub>-SCR Catalysts: NH<sub>3</sub> Storage Influence to Catalyst Performance under Transient Conditions, *Sensors*, **17**, 2746 (2017), doi: 10.3390/s17122746

M. Dietrich, G. Hagen, W. Reitmeier, K. Burger, M. Hien, P. Grass, D. Kubinski, J. Visser, R. Moos: Radio-Frequency-Based NH<sub>3</sub>-Selective Catalytic Reduction Catalyst Control: Studies on Temperature Dependency and Humidity Influences, *Sensors*, **17**, 1615 (2017), doi: 10.3390/s17071615

Special thanks to Prof. Nieken (Univ. of Stuttgart) for his service as a co-examiner of this thesis.



From left to right: Prof. Jess, Prof. Brüggemann, Dr. Dietrich, Prof. Moos, Prof. Nieken (Univ. of Stuttgart)