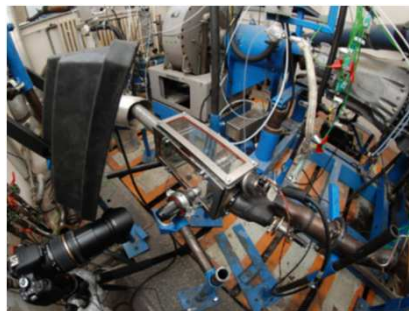


# FVV/AiF/Cornet-Project: AdBlue Deposits submitted – Collaboration with TU Wien (Prof. Lauer)



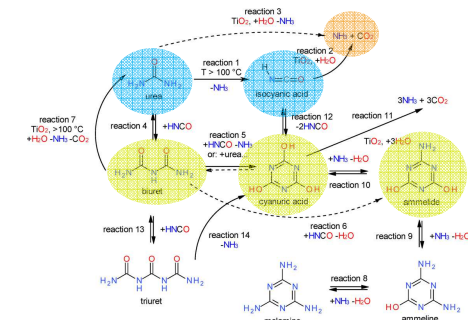
- Objectives:
  - Development of a comprehensive modelling approach to numerically simulate AdBlue injection and deposit formation in the tail pipe of a urea-SCR equipped exhaust gas treatment system
  - Prediction of local deposit formation and decomposition
- Modeling approach: CFD turbulent flow simulation including the liquid phase and reaction kinetics for gas, liquid, and solid phases
- Experimental methods: Establishment of data base on a lab test rig (KIT) as well as on an engine test bench (Vienna)
- Challenges: Coupling of CFD simulation and kinetics of deposits due to largely varying time scales



Engine test bench (Vienna)



TGA (KIT)



Reaction network (KIT)