



**Announcement
Wintersemester 2025/2026**

Firing Systems and Flue Gas Cleaning

4 SWS (3 lecture + 1 exercise)

LV-No. 610701003

Lecturer: Univ.-Prof. Dr. rer. nat. Markus Reinmüller

Assistant lecturer: **M.Sc. Nico Mader**, nico.mader@ifk.uni-stuttgart.de, Tel. 0711/685-65584
M.Sc. Assunta Muthoni, assunta.muthoni@ifk.uni-stuttgart.de, Tel. 0711/685-68945

Time: **Wednesday, 08:00 – 11:15 a.m.**

Start: **15.10.2025 (introducing lecture in V23.01)**

Site: **V 23.01**

Content of the lecture:

I: Combustion and Firing Systems:

- Fuel types, fuel properties, fuel analyses
- Combustion fundamentals, aerodynamics, diffusion and kinetics, mass and energy balances
- Firing systems for different fuels - overview and applications
- Gasification systems for different fuels - overview and applications

II: Flue Gas Cleaning:

- Environmental effects of combustion
- Greenhouse gas emissions
- Products of incomplete combustion
- Removal of particulate matter
- Sulphur removal
- Nitrogen oxide reduction
- Destruction and removal of other pollutants

Univ.-Prof. Dr. rer. nat. M. Reinmüller