



#### Rotary Kilns

- ▶ Lateral and axial movement
- ▶ Heat transfers - flame spread
- ▶ Residence time

more...

#### Shaft Kilns

- ▶ Decomposition kinetics of various limestones
- ▶ Measure physical properties
- ▶ Multidimensional flow calculations using CFD

more...

#### Tunnel Kilns

- ▶ Energetic optimization
- ▶ Multidimensional flow calculations using CFD

more...

#### Roller Kilns

- ▶ Contact heat transfer roll-good
- ▶ Role impact on good-warming
- ▶ Lance assembly

more...

#### Combustion Processes

- ▶ Optimization of combustion chambers  
(simulation of flow, concentration and temperature fields with combustion reaction)

more...

#### Measurement of thermophysical Material Properties

- ▶ Thermal conductivity
- ▶ Spec. heat capacity
- ▶ Density and thermal expansion-reaction, and temperatures

more...

Intensive Cooling

more...

Drying Processes

more...

Interested?

Are you interested in our services? Then simply  
contact ›Prof. Specht directly.

#### Research Focuses

- ▶ Dynamic Simulation of Heat Treatment Processes
- ▶ Intensive Cooling of Metals with Hardness and continuous casting Processes
- ▶ Cumulative Energy and CO<sub>2</sub> Balances
- ▶ Heat Transfer Processes
- ▶ Influence of Surface Roughness on secondary Cooling in continuous Casting of non-ferrous Metals
- ▶ Analysis and Modeling of Heat Transfer in Rotary Pipes with Lifting Blades