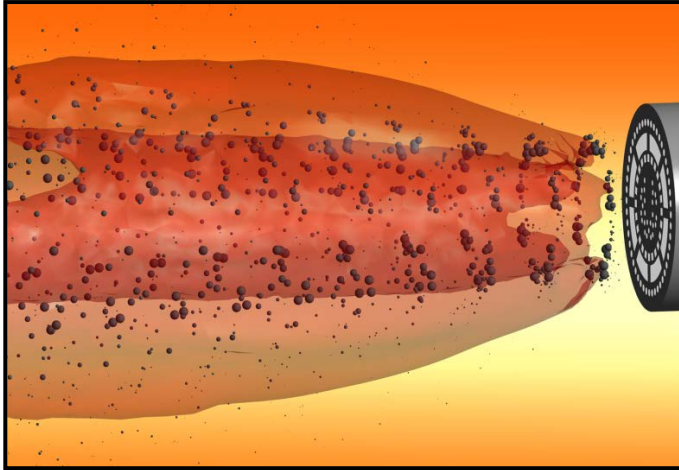


## Seminar

# Process Optimization in the Cement Industry



Modeling, Simulation and Optimization of  
Production Processes in the Cement Industry

October 28<sup>th</sup> / 29<sup>th</sup> 2014  
Aachen, Germany

**aixergee**  
process optimization

## Seminar

### Participation Fee

Seminar

700,- EUR

The number of participants will be limited in order to intensify discussion and effectiveness. Shortly after your registration you will receive the invoice. Cancellation is possible without costs until September 15<sup>th</sup>. After that date we will charge a handling fee of 100,- EUR.

We can help you with your hotel reservation.

Please let us know: [info@aixergee.de](mailto:info@aixergee.de)

### Contact and Venue



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# Seminar

## Motivation

The optimization of the production processes is a permanent challenge for the cement industry. Maximizing fuel substitution, lowering pressure drop, stabilization of operation or increasing plant availability or reducing NOx emissions are just a few objectives of process optimization. Due to the meanwhile advanced complexity of the production of cement and regarding the ever increasing pressure to burn secondary fuels, a deep understanding of the process and its underlying phenomena is essential for successful optimization projects. Physical modelling and simulation technologies can provide support in analysing and optimizing the process.

## The seminar

The seminar gives an overview on the state-of-the-art approaches and tools for the optimization of the process of manufacturing cement. The knowledge exchange takes place not only in theory but is also supported by extensive reporting of real cases by two international cement manufacturers who are known for their high quality standards. Finally, the learned knowledge is applied by the participants themselves in practice. Every seminar delegate may specify a case for a "hands on"-workshop during the registration, which will be elaborated and discussed during the workshop\*.

The seminar will cover all essential know-how to successfully manage CFD-based optimization projects. The delegates will learn everything necessary to make their optimization projects more successful and avoid senseless application of simulation technologies. The reports from the industrial case studies will be accompanied by open and critical discussions. By working on concrete cases during the workshop, the delegates can take home a real result and transfer it to their plants.

## Who should attend the seminar?

- Production engineers and managers
- Process engineers
- Project engineers
- Technical consultants and decision makers

\* Delegates are invited to bring a real optimization case to the workshop, which will be prepared in advance and worked on during the workshop. aixergee reserves the right however to limit the details of the execution of this optimization to whatever is appropriate for this workshop especially in case the number of registered cases is high.

# Program

## Tuesday, October 28<sup>th</sup>

- 9:00 Welcome and Introduction
- 9:15 Process Optimization – Introduction  
(Dipl.-Ing. Matthias Mersmann, aixergee GmbH)
- 9:45 Modelling Approaches & Tools for the Cement Industry  
(Dr.-Ing. Martin Weng, aixergee GmbH)
- 10:15 Coffee Break
- 10:45 Optimization of Cement Production Equipment & Process  
(Dipl.-Ing. Matthias Schumacher / Dipl.-Ing. Matthias Mersmann, aixergee GmbH)
- 13:00 Lunch Break
- 14:00 Experience with Computer Models to Support Process Optimization  
(Dipl.-Ing. Michael Suter, Holcim)
- Coffee Break in between
- 18:00 Final Discussion

## Wednesday, October 29<sup>th</sup>

- 9:00 Experiences with CFD-modeling for Solving Process Issues  
(Dr.-Ing. Michael Müller-Pfeiffer, Cemex)
- Coffee Break in between
- 13:00 Lunch Break
- 14:00 Workshop – Your Optimization Cases: Modelling, Computation & Interpretation of your Case\*
- Identification of the Relevant Process Properties and Parameters
  - Selecting an Appropriate Solution Strategy
  - Setting up an Appropriate Model
  - Interpretation of the Results
  - Transfer of the Results on the Real Plant
- Coffee Break in between
- 17:00 Final Discussion

## Lecturers

### Dipl.-Ing. Matthias Mersmann

has been performing equipment design and process optimization for the cement industry for 20 years. After heading technology for KHD Humboldt Wedag as a vice president, he founded aixergee together with Dr.-Ing. Martin Weng. He is also acting as a member of the executive Board for Loesche, responsible for Technology, as aixergee is acting as a member of the Loesche group.

### Dr.-Ing. Martin Weng

founded the engineering company aixprocess as a spin-off from the technical university Aachen (RWTH) before starting aixergee. aixprocess has developed a multitude of special engineering and simulation tools. Many of these are specifically designed for the needs of the cement industry and are utilized exclusively by aixergee for this purpose.

### Dipl.-Ing. Matthias Schumacher

is senior project manager at aixprocess and aixergee. For more than 5 years he has been strongly involved in modeling and optimization of cement process and cyclone technology. During that time he gained experience from various site inspections and theoretical investigations.

### Dr.-Ing. Michael Müller-Pfeiffer

holds the position of Director Process and Technology Germany and Northern Europe at Cemex. He achieved his PhD while working for the VDZ in the fields of grinding and pyro-process optimization. After 15 years with the VDZ he joined Cemex where he is now conducting optimization projects all over the world.

### Dipl.-Ing. Michael Suter

holds the position of Head of Operational Performance Cement in the Regional Support Organization - Central and Western Europe with Holcim. After his graduation from the ETH Zürich he started his career as process engineer with Holcim, held line functions in 3 cement plants as well as functional positions in Holcim corporate technical services. He worked in Switzerland, South Africa, Germany and CZ republic.

## Registration form

Hereby I sign up bindingly for the seminar.

Company

Gender

Title

First Name

Surname

Position

Street Address

City

Postal Code

Country

Telephone

Fax

E-Mail

Please send your registration back by fax or E-Mail.  
Or simply register online at [www.aixergee.de](http://www.aixergee.de)