

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 15th. 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

Contact and Venue



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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.

Seminar

Process Optimization in the Cement Industry



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

**October 11th / 12th 2018
Aachen, Germany**

aixergee
process optimization

Program

Thursday, October 11th

- 09:00 Welcome and Introduction
- 09:15 Modelling and process optimization – Introduction
(M. Mersmann, aixergee)
- 09:45 Particle laden gas flows – optimization of bag-house & EP-filters
(M. Schumacher, aixergee / M. Müller-Pfeiffer, Dyckerhoff)
- 11:00 Coffee break
- 11:30 Dense suspension flows - Optimization of riser ducts, calciners & preheaters
(M. Weng, aixergee / M. Müller-Pfeiffer, Dyckerhoff)
- 13:00 Lunch break
- 14:00 Combustion & heat transfer - Optimization of kiln and calciner burners
(Matthias Mersmann, aixergee / N.N)
- Coffee break in between
- 17:00 Final discussion

Friday, October 12th

- 9:00 Modelling of secondary fuel flow & combustion
(M. Schumacher, aixergee)
- 10:00 Multi-Physics – Optimization of AF-fired calciners
(Matthias Mersmann, aixergee / A. Bojarczuk, Cemex)
- 13:00 Lunch break
- 14:00 Emissions of minority components – Optimization of NOx emissions
(Matthias Schumacher, aixergee)
- 15:30 Optimization toolbox – data mining, flowsheet modelling, CFD
(M. Weng, aixergee)
- 17:00 Final discussion

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, 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 theoretical background, which is essential to capture, will be presented on the practical example. This way the delegates can easily relate their actual questions to the simulation methods. 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.

Aixergee will also provide the „Real physics“-virtual reality system which allows stepping into the 3-dimensional space of the simulated process. This novel technology makes the process better „accessible“ but facilitates evaluation of the phenomena much better than conventional displays on monitor or paper.

The seminar will cover all essential know-how to successfully manage modelling-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.

Who should attend the seminar?

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

Lecturers

Dipl.-Ing. Matthias Mersmann

has been performing equipment design and process optimization for the cement industry for 25 years. After heading technology for KHD Humboldt Wedag as a vice president, he founded aixergee together with Dr.-Ing. Martin Weng. He also acts as a General Manager for Loesche since aixergee was incorporated into 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 10 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 Head of Plant Support Dept. Germany/Luxembourg. 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 and finally Dyckerhoff where he now successfully implements optimization projects.

Dipl.-Ing. Adam Bojarczuk

is Engineering and project Director in CEMEX Polska. Responsible for all projects development and execution in cement division in Poland. Already 32 years in cement business. Over that time he was working in different production departments up to Plant Director in Chelm. Since 2009 working as Capex Director in CEMEX Polska.