



Conference Program

30th May

13 00 – 13 20

M. Příbyl (The Czech Ceramic Society)

Words of welcome

13 20 – 14 00

Ch. G. Aneziris, P. Gehre, A. Schmidt, E. Storti, S. Dudczig, J. Fruhstorfer, J. Hubalkova (TU Bergakademie Freiberg)

KEYNOTE

Interactions of refractory filtering materials with steel melt, a contribution to clean steel technologies

14 00 – 14 40

Ch. Wöhrmeyer, P. Edwards, Ch. Parr (Kerneos S.A.)

KEYNOTE

Raw material innovations – a key success factor in a fast changing refractories world

14 40 – 15 00

Coffee break

15 00 – 15 40

P. Skarabela, M. Příbyl, J. Rank (Promat)

KEYNOTE

Aerogel based materials - production and key applications of new high performing insulation

15 40 – 16 00

J. Werner, J. Fruhstorfer, A. Mertke, C. Ode, Ch. G. Aneziris (TU Bergakademie Freiberg)

The influence of nano-scaled additions on the Young's modulus of carbon-bonded alumina at temperatures up to 1450 °C

16 00 – 16 20

F. Simonin, C. Zetterstrom, Ch. Wohrmeyer, P. Edwards (Kerneos)

New Active Compounds Range as solutions for improved Refractory Castables

16 20 – 16 40

J. Fruhstorfer, Ch. G. Aneziris (TU Bergakademie Freiberg)

Influence of particle size distributions with a maximum grain size of 1 mm on the density, density gradient and strength of uniaxially die pressed refractories

16 40 – 17 00

Coffee break

17 00 – 17 40

P. Vadász, B. Plešingerová, J. Derďák, R. Bajusová, E. Dedinská (TUKE)

KEYNOTE

Leachability of elements from spent refractory bricks on landfill

17 40 – 18 00

G. Sučík, L. Popovič (TUKE)

The aim of thermal processing of serpentine in its leaching in diluted hydrochloric acid

18 00 – 18 20

P. Kovář, K. Lang, P. Tihlařík, D. Všianský, L. Nevřivová (PD Refractories)

Mullitized raw materials for high-alumina products

18 20 – 18 40

L. Gijbsregts, W. Dobbelaere, J. Stransky, M. Kotrc (Umicore Precious Metals Refining and IngenieurBüro für Keramik)

A new isotropic damage model with clogging / investigation of crack pattern

18 40 – 19 00

P. Tihlařík, L. Nevřivová, P. Kovář, K. Lang (PD Refractories)

Acid grog with regulated alkali content development and dynamic modulus of elasticity determination

19 00 – 21 00

Get together



31st May

- 9 00 – 9 20 **M. Khanale, A. Chaudhary (Department of Ceramic Engineering, IIT and Refractory Technology Group, Tata Steel)**
Study on Improvement of Castable Quality of Desulphurization (DS) Lance Life: A Numerical Model based Critique
- 9 20 – 9 40 **S. Kannabiran, M. Zhang (Refractory Research Centre)**
No cement castable - an innovative solution for energy saving from HÖGANÄS BJUF AB.
- 9 40 – 10 00 **P. Šíma, M. Cieslar, M. Příbyl (Promat)**
Lightweight preheating stands and lids used in Steelwork Trinec
- 10 00 – 10 20 **F. Appel, W.H. Reschke (Hans Lingl Anlagenbau & Verfahrenstechnik GmbH & Co.KG)**
A new Firing Technology for Raw Materials with High-Energy Aggregates
- 10 20 – 10 40 Coffee break
- 10 40 – 11 20 **E. Rimpel (Institut für Ziegelforschung Essen E.V.)**
KEYNOTE
Energy conservation through waste heat utilization
- 11 20 – 12 00 **M. Schnabel, S. Klaus, A. Buhr (Almatis)**
KEYNOTE
Five years after market launch - experiences with BSA 96
- 12 00 – 12 20 **Ch. Dünzen, O. Splittgerber, A. Wolter (Nabaltec AG, TU Clausthal)**
Strength evolution and corrosion resistance of a cement free Al₂O₃-castable containing a novel hydraulic binder based on α-alumina
- 12 20 – 12 40 **P. Gehre, Ch. G. Aneziris (TU Bergakademie Freiberg)**
Corrosion of new alumina-based refractories by coal and biomass ash
- 12 40 – 14 00 Lunch
- 14 00 – 14 40 **P. Šajgalík (President of ECerS and Slovak Academy of Sciences)**
Distinguished guest keynote
- 14 40 – 15 00 **S. Dvořák (PD Refractories)**
KEYNOTE
What is the future of refractories?
- 15 00 – 15 20 Coffee break
- 15 20 – 15 40 **D. Frulli (Imerys)**
Properties of andalusite and mullite minerals and their applications in the Refractory Industry
- 15 40 – 16 00 **D. Chudíková, V. Petrov, R. Hirjak, V. Mišaneková, R. Šimko (RMS, a.s.)**
Steel ladle bottom castable with higher corrosion and erosion resistance
- 16 00 – 16 20 **E. Brochen, Ch. Dannert, F. Holleyn, O. Krause (Forschungsgemeinschaft Feuerfest e.V. and Hochschule Koblenz)**
Comparison of the thermal shock resistance of high alumina refractory castables, obtained according to the standard EN 993-11, with measurements performed with a new application-oriented thermal shock testing system
- 16 20 – 16 40 **H. Kern, K. Zolldann (RATH)**
Optimization of Thermal and Material Properties of Refractories used in Crematoria
- 17 30 – 21 30 Cruise and Raut



1st June

9 00 – 9 40

F. Raether, G. Seifert, J. Baber (Fraunhofer Center for High Temperature Materials and Design HTL)

KEYNOTE

ThermoOptical Measuring methods for the High Temperature Characterization of Refractories

9 40 – 10 00

T. Uhlířová, W. Pabst, E. Gregorová (UCT Prague)

Microstructure characterization of heterogeneous materials by microscopic image analysis and tomography

10 00 – 10 20

S. P. David, V. Jambunathan, A. Lucianetti, T. Mocek (HiLASE Centre, Institute of Physics ASCR)

Transparent ceramics for high power lasers and technical applications

10 20 – 10 40

P. Mazurkiewicz (Thermal Ceramics Polska Sp. z o. o.)

The role of WDS in reducing heat flux through modern refractory systems

10 40 – 11 00

Coffee break

11 00 – 11 20

M. Sucu, T. Delibaş (Research & Development Executive at Çimsa Cement)

Investigation of Aggregate Type Impact on Thermal Stability of CAC Bonded Alumina Castables

11 20 – 11 40

L. Keršnerová, R. Kováč, P. Kovář, K. Lang (PD Refractories)

Assortment of refractory products for fireplaces and stoves – an overview

11 40 – 12 00

S. Kimmig, T. Schmidt, G. Seifert (Fraunhofer-Center for High Temperature Materials and Design HTL)

Experiment-based service-life prediction of refractory components

12 00 – 12 20

J. Vlček, B. Janíková, M. Klárová, M. Topinková, H. Ovčačíková (VŠB-TU Ostrava)

Protection of refractory materials by thin layers method

12 20 – 12 40

J. Urbánek, J. Kutzendorfer, J. Hamáček, J. Cibulková, M. Henek, N. Pávková (VŠCHT Praha, Průmyslová keramika, spol. s r.o.)

Application of castables containing SiC