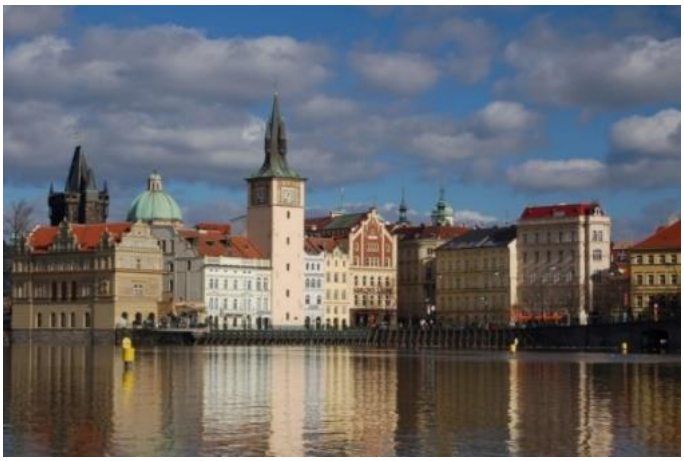
Dear colleagues, we invite you to participate in

REFRA PRAGUE 2017

the 19th conference on modern refractory materials and key achievements in high temperature technologies, which will take place in Prague from **30th May** to **1st June, 2017** at the site of the Czech Association of Technical Societies on Novotneho lavka 5, Prague 1.



The scientific program will include the following topical groups:

- **Energy aspects of high-temperature processing**
- **Refractory and thermoinsulating materials for high-temperature technologies**
- **Corrosion of refractory materials**
- **Structure of refractory materials and its modification**

PARTICIPATION CONDITIONS AND INSTRUCTIONS:

1) Conference fee and registration

On-line registration is available at *www.silikaty.cz*.

Fee before April 14th, 2017:
Full: 400 EUR
For members of The Czech Ceramic Soc.: 200 EUR
Students: 200 EUR
Accompanying person: 150 EUR

Fee after April 14th, 2017:
Full: 500 EUR
For members of The Czech Ceramic Soc.: 300 EUR
Students: 300 EUR
Accompanying person: 200 EUR

The conference fee covers the expense associated with the organization of the conference, conference proceedings, reception, refreshment, evening social events, etc. Accommodation is not included. Payments details will be provided in the next conference announcement.

refractories WORLDFORUM
Manufacturing & Performance of High-Temperature Materials

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2) Advertisement

If you wish to advertise during the conference, please contact the secretariat (Novotneho lavka 5, Prague 1, Company ID: 550043, *sis@csvts.cz*). Exhibitors are welcome to present their companies or products in form of an exhibition table or exhibition panel in the foyer of congress hall.

3) Means of payment

All payments must be performed via bank transfer. Payment can be carried out in CZK or EUR (1 EUR = 27 CZK).

Bankovní účet (CZK)
Komerční banka a.s., Praha 1, Spálená 51
Číslo. účtu: 52936011/0100
Konstantní symbol: 0010
Variabilní symbol: 213
Uveďte prosím též Vaše jméno a číslo faktury.

Bank account (EUR)
Komerční banka a.s., Prague 1, Spálená 51
Account number: 115-3767280267/0100
SWIFT: KOMBCZPPXXX
IBAN: CZ3101000001153767280267
Please, provide your name and invoice number.

4) Conference registration and brief program

30th May	**31st May**	**1st June**
12 00 - 13 00 Registration	9 00 - 12 40 Lectures	9 00 - 12 40 Lectures
13 00 - 19 00 Lectures	12 40 - 14 00 Lunch	
19 00 - 21 00 Get together	14 00 - 16 40 Lectures	
	17 30 - 21 30 Cruise and Raut	

Registration and conference will take place at Novotneho lavka 5, Prague 1

5) Conference language

All lectures will be presented in English, Czech or Slovak. The presentation have to be in English. Translation will be ensured (interpreting equipment and interpreter).

6) Accommodation and cultural events

The organizers do not provide accommodation. Please visit *http://www.prague.eu/en* for accommodation and other information about Prague events. See also information about the Prague castle (https://www.hrad.cz/en/prague-castle-for-visitors), Prague astronomical clock, Charles bridge or National Theatre (http://www.narodni-divadlo.cz/en).

Conference Program

30th May

13 00 – 13 20	***M. Přibyl (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. Pribyl, 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. Derďak, R. Bajusová, E. Dedinská (TUKE)*** **KEYNOTE** Leachability of elements from spent refractory bricks on landfill
17 40 – 18 00	***G. Sučik, Ľ. 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. Gijsbregts, 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. Přibyl (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 **KEYNOTE**	***E. Rimpel (Institut für Ziegelforschung Essen E.V.)*** Energy conservation through waste heat utilization
11 20 – 12 00 **KEYNOTE**	***M. Schnabel, S. Klaus, A. Buhr (Almatis)*** 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 Al_2O_3-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 **KEYNOTE**	***S. Dvořák (PD Refractories)*** 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

Dr. Michal Přibyl
President of Czech Ceramic Society