



The Czech Ceramic Society invites you to participate in

## REFRA PRAGUE 2022

the 21<sup>st</sup> conference on modern refractory materials and key achievements in high temperature technologies will take place from **18<sup>th</sup> to 20<sup>th</sup> May 2022** at the site of the Czech Association of Technical Societies on Novotného lávka 5, Prague 1.



### Conference fee and registration

On-line registration is available at <http://silikaty.cz/www-30>. The invoice will be sent to your e-mail address after the registration within two weeks.

Full: 500 EUR

Members of the Czech Ceramic Society: 300 EUR

Students: 300 EUR

Accompanying person: 200 EUR

The conference fee covers the expenses associated with the organization of the conference, conference proceedings, reception, refreshment, social events etc. The accommodation is not included.

If you wish to advertise in the conference proceedings or at the conference venue, please contact the secretariat (Novotného lávka 5, Prague 2, Company ID: 550043, hluxa@seznam.cz, sis@csvts.cz). Exhibitors are welcome to present their companies or products in the form of an exhibition table or panel in the foyer of the congress hall.





## CONFERENCE PROGRAM

**18<sup>th</sup> May**

**12<sup>00</sup> – 13<sup>00</sup>** **Registration (Novotného Lávkva 5, Prague)**

**Section 1**

**13<sup>00</sup> – 13<sup>30</sup>** **M. Příbyl (The Czech Ceramic Society)** Words of welcome

**13<sup>30</sup> – 14<sup>05</sup>** **P. Šajgalík, Z. Lenčěš, C. Zhang, A. Mukasyan (ECerS, Slovak Academy of Sciences)** Rapid hot-pressed ultra-high creep resistant silicon carbide ceramics

**Keynote**

**14<sup>05</sup> – 14<sup>40</sup>** **H. Jansen (Refratechnik Steel)** HYBRID – Innovative bonding technology for refractory concrete

**Keynote**

**14<sup>40</sup> – 15<sup>00</sup>** **Coffee break**

**Section 2**

**15<sup>00</sup> – 15<sup>35</sup>** **C. G. Aneziris, P. Gehre, B. Bock-Seefeld, T. Wetzig, P. Malczyk, S. Yaroshevskiy, C. Weigelt, J. Hubálková, E. Storti (TU Bergakademie Freiberg)** 3D-AM in Advanced Refractory Applications

**Keynote**

**15<sup>35</sup> – 15<sup>55</sup>** **E. Storti, M. Neumann, T. Zienert, J. Hubálková, C. G. Aneziris (TU Bergakademie Freiberg)** Metal-ceramic beads based on niobium and alumina produced by the alginate gelation

**15<sup>55</sup> – 16<sup>15</sup>** **Coffee break**

**Section 3**

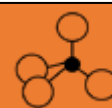
**16<sup>15</sup> – 16<sup>45</sup>** **C. Heuer, C. G. Aneziris, R. Soth, A. Priese, C. Wöhrmeyer, C. Parr (TU Bergakademie Freiberg)** Impact of the stabilizer type and the phase composition on thermal shock performance of zirconia ceramics

**16<sup>45</sup> – 17<sup>05</sup>** **B. Bock-Seefeld, T. Wetzig, J. Hubálková, G. Schmidt, M. Abendroth, C. G. Aneziris (TU Bergakademie Freiberg)** A novel approach for the production of carbon-bonded alumina filters by water-soluble filter templates

**17<sup>05</sup> – 17<sup>25</sup>** **K. Moritz, S. Dudczig, H. G. Endres, D. Herzog, M. Schwarz, L. Schöttler, T. Schemmel, C. G. Aneziris (TU Bergakademie Freiberg, Refratechnik)** Use of recycled materials for producing magnesia-carbon refractories

**18<sup>00</sup> – 21<sup>00</sup>** **Get together**





19<sup>th</sup> May

Section 4

9<sup>30</sup> – 10<sup>05</sup>

**S. Dvořák, K. Lang, L. Vašica (P-D Refractories CZ)** Hot blast stove and choice of refractories

**Keynote**

10<sup>05</sup> – 10<sup>25</sup>

**L. Keršnerová, Š. Keršner, D. Zemánek, E. Bartoníčková, J. Švec, P. Hrubý, F. Šoukal (P-D Refractories CZ)** Lightweight insulating castables made by sol-gel technology

10<sup>25</sup> – 10<sup>55</sup>

**E. Bartoníčková, J. Švec, L. Galvanková, P. Hrubý, J. Koplík, F. Šoukal, D. Zemánek, L. Keršnerová, Š. Keršner, K. Lang (BUT Brno)** Densification of porous mullite-based castables by sol-gel impregnation

10<sup>55</sup> – 11<sup>15</sup>

**Coffee break**

Section 5

11<sup>15</sup> – 11<sup>35</sup>

**P. Leto (Průmyslová keramika)** A novel method for characterization of refractory plastic materials

11<sup>35</sup> – 11<sup>55</sup>

**H. Ovčačíková, M. Velička, J. Vlček, V. Matějka, B. Kostura (VSB Technical University of Ostrava)** 3D Ceramic print

12<sup>00</sup> – 14<sup>00</sup>

**Lunch**

14<sup>00</sup> – 14<sup>35</sup>

**C. Wöhrmeyer, F. Simonin, F. Ahouanto (Imerys)** A review of Al<sub>2</sub>O<sub>3</sub>-rich aluminosilicate aggregates and their impact on thermomechanical properties of refractories

14<sup>35</sup> – 14<sup>55</sup>

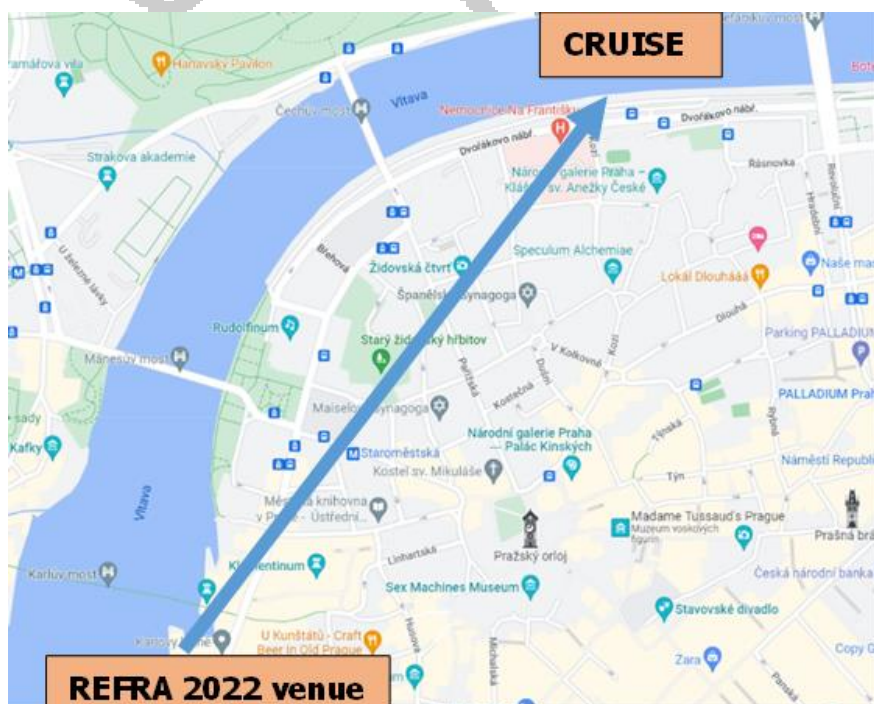
**P. Vadász, B. Plešingerová, D. Medved', G. Sučík, R. Bakajsová (Technical University of Košice)** Corrosion of corundum refractory materials in intensive process of dendromass combustion

14<sup>55</sup> – 15<sup>15</sup>

**B. Lekkerkerk (Vulcor Insulation)** Generation III spinning/Ultra low shot production of high temperature fiber products

16<sup>00</sup> – 22<sup>00</sup>

**Cruise (boarding 16<sup>00</sup> – 16<sup>45</sup>) and Dinner**



**Průmyslová  
keramika**

**IRELLAY®**

**Promat**

**PD Refractories**  
**refractories**  
**WORLDFORUM**  
Manufacturing & Performance of High-Temperature Materials



20<sup>th</sup> May

Section 6

9<sup>30</sup> – 10<sup>05</sup>

**Keynote**

**R. Bakajsová, G. Sučík, B. Plešingerová, P. Vadász, D. Chudíková (Technical University of Košice)** Influence of SiC content on the resistance of low-cement and non-cement refractory materials against corrosion by oxide melts

10<sup>05</sup> – 10<sup>25</sup>

**J. Fruhstorfer, D. Gruber, H. Harmuth (Montanuniversität Leoben)** Analyzing crack deflection behavior of refractories by digital image correlation

10<sup>25</sup> – 10<sup>45</sup>

**D. Salamon, J. Roleček, L. Pejchalová, J. Sedláček (BUT Brno)** Freeze-casting of highly porous ceramics

10<sup>45</sup> – 11<sup>05</sup>

**J. Kočí, M. Havlík Míka, J. Hamáček (UCT Prague)** Synthesis of mullite fibers from boehmite nanoparticles

11<sup>05</sup> – 11<sup>25</sup>

**M. Havlík Míka (UCT Prague)** Heat resistant nanofibers for batteries in electric vehicles

