

**September 29th and 30th, 2021
EUROGRESS, Aachen, Germany**

ICR® 2021 – PROGRAMME

(Preliminary as of August 25th, 2021)

September 29th, 2021

10:00	Ulf Frohneberg	Opening address from the President, DFFI
10:05	Daive Ghilotti, William Clarke <i>Fastmarkets</i>	Keynote: Refractory raw materials prices and markets in 2021 and beyond
10:35	Helge Jansen <i>Refratechnik Steel GmbH</i>	Keynote: Alternative raw materials for refractories Made in Europe – reducing the carbon footprint
11:05	Stephan Eirich <i>Maschinenfabrik Gustav Eirich</i>	Introduction to the 2021 Gustav Eirich Award
11:10	TBA during the event	Presentations from the three winners of the 2021 Gustav Eirich Award
12:10	Lunch	
	<i>Iron- and Steelmaking</i>	
13:20	Roumiguier, L.; Delobel, F., Boudet, A., Pilate, P. <i>Belref SA</i>	Innovative fused silica pre-shaped refractory for coke ovens
13:40	Wöhrmeyer, C.; Szepizdyn, M., Liu, C., Bhattacharya, G., Simonin F., Deteuf, C. <i>Imerys Aluminates GmbH</i>	A new deflocculation system and its interaction with key components of blast furnace trough castables
14:00	Stein, V.; Schemmel, T., Jansen, H. <i>Refratechnik Steel GmbH</i>	Corrosion mechanisms of different magnesia types and grades in MgO-C bricks – a unique approach to visualize performance and limits of MgO raw materials
14:20	Kerber, F.; Stein, V., Schemmel, T., Jansen, H., Aneziris, C. G. <i>TU Bergakademie Freiberg</i>	Influence of different MgO-C refractory material on the inclusion population in Al-deoxidized steel
14:40	Liefhebber, J.; Hoeck, H., Mustacevic, N., Siebring, R. <i>Tata Steel Europe</i>	Impact of health and safety regulations on refractories buying and selection at Tata Steel in Ijmuiden
15:00	Tassot, P.; Schemmel, T., Felici- ano-Bruzual, C., Sengupta, U. <i>Refratechnik Steel GmbH</i>	Management of the performance of torpedo ladle
15:20	Breithaupt, M.; Hansert, P. <i>Badische Stahlwerke GmbH</i>	Safe and optimized addition of ladle sand at BSW
15:40	Mouiya, M.; Arib, A., Taha, Y., Temraoui, Y., Tessier-Doyen, N., Hakkou, R., Alami, J., Huger, M. <i>Mohamed VI Polytechnic</i>	Fabrication of sustainable refractory brick: Utilization of different natural raw materials
16:00	Break	

Incineration/Corrosion

- | | | |
|-------|---|---|
| 16:20 | Dietze, C.; Brachhold, N., Schemmel, T., Bühringer, M., Jansen, H., Aneziris, C. G.
<i>TU Bergakademie Freiberg</i> | Development and investigation of high temperature materials for application under alkali exposure |
| 16:40 | Bastian, M.; Dannert, C., Kehren, J., Krause, O.
<i>Forschungsgemeinschaft Feuerfest</i> | Oxidation of Si ₃ N ₄ bonded SiC: How chemical composition and pore parameters influence the oxidation behaviour |
| 17:00 | Paul, J.; Krause, O., Erbar, L., Holleyn, F., Sollbach, M., Dannert, C.
<i>Hochschule Koblenz</i> | SEM investigations of the impact of SiC on alkali corrosion in refractory castables |
| 17:20 | Lang, C.; Abdelouhab, S., Delobel, F., Pilate, P.
<i>Belgium Ceramic Research Center</i> | Oxidation behaviour of SiC refractory samples used in waste incineration furnaces containing different antioxidantizing compounds in the starting mixture |
| 17:40 | Özkurt, E.
<i>Refractory Consultant</i> | Selection criteria of refractories for cement plants |

September 30th, 2021

Castables I

- | | | |
|-------|---|---|
| 09:00 | Dünzen, C.; Janousch, D.
<i>Nabaltec AG</i> | Viscosity changes of an alumina based castable during mixing and the effect of bimodal reactive aluminas |
| 09:20 | Holley, F.; Klein, L., Krause, O.
<i>Hochschule Koblenz</i> | Proper mixing is a still undervalued key issue for targeted development and fabrication of refractory monolithics for reproducible material |
| 09:40 | Angelkort, J.; Fröse, N., Mix, M.
<i>Intocast AG</i> | The hydration of a calcium aluminate cement and the accelerating effect of Li ₂ CO ₃ and MgCO ₃ |
| 10:00 | Peng, H.
<i>Elkem Silicon Materials</i> | Fast dry-out of cement-free MgO based castables |
| 10:20 | Kasper, J.; Koch, A., Krause, O., Dannert, C.
<i>Forschungsgemeinschaft Feuerfest</i> | Dispersion and stiffening behavior of matrix suspensions of refractory castables in the presence of impurities |
| 10:40 | Gerz, A.; Schmid, M., Walenta, G., Noel, N., Sax, A., Quirnbach, P.
<i>Calucem GmbH</i> | Characterization of low cement castables in application-related formulation ranges |
| 11:00 | Break | |

Castables II

- | | | |
|-------|---|--|
| 11:20 | Zhang, M.; Larsson, M., Alibasic, E., Landell, H. <i>Höganäs Borgestad</i> | Self-healing castable repairs its own cracks (II) |
| 11:40 | Sarioglu, N.; Kara, V., Yanik, H.G., Kurukavak, O.
<i>Kümas Manyezit Sanayi</i> | Determination of binders for basic gunning mixes based on applications |
| 12:00 | Lunch | |

Innovation in refractories

- 13:40 **Cölle, D.;** Rosenberger, J.,
Vesenberg, B., Willenweber, A.
EKW GmbH "Eisenberger Luting Sand" for the sustainable produc-
tion of resource-efficient refractory ceramics
- 14:00 **Endler, D.;** Ziernert, T., Hubáľková,
J., Gehre, P., Aneziris, C. G.
TU Bergakademie Freiberg Coarse grain metallic/ceramic-refractory composites,
an approach for functional refractory composites
- 14:20 **Malczyk, P.;** Kerber, F., Zienert,
T., Yaroshevskiy, S., Weigelt, C.,
Sauke, S.-O., Semrau, H.,
Aneziris, C. G.
TU Bergakademie Freiberg Corrosion resistant stainless steel/ceramic composite
refractory materials for applications in molten alumi-
num alloys
- 14:40 **Bach, M.;** Dudczig, S., Schemmel,
T., Bühringer, M., Jansen, H.,
Aneziris, C. G.
TU Bergakademie Freiberg Synthesis, properties and application potential of per-
ovskite-like refractory composites
- 15:00 End of ICR 2021**

This preliminary programme is subject to change without notice. A final programme will be available online and as booklet during ICR® 2021.