

Free webinar

Novel high performance materials & components

November
15th

Zoom platform

Energy intensive industries require a radical transformation of their production processes to reach carbon neutrality by 2050. Future low carbon technologies and processes should address **fluctuating and extreme conditions, such as high temperature or corrosive environments, materials and components that will need to be able to be sustained**. In the same way, they also need to be designed for high-energy performance.

This free webinar organized within the P4P Partnership of A.SPIRE aims at presenting the main advances achieved within some of the projects aligned with the LC-SPIRE-08-2020 work-topic.

registration



Programme

GMT +2

10:00	Welcome and opening
10:05	New generation of refractory stainless steels for the industry. The effect of cooling rate during solidification on high temperature properties HIPERMAT Fernando Santos / Emili Barbarias (<i>AZTERLAN Metallurgy Research Centre</i>)
10:25	Rapid development of new materials through the use of a combined approach of generative and physics-based models ACHIEF Andrea Gregores Coto (<i>R&D Robotics & Automation</i>)
10:45	Material Design for Additive Manufacturing: Enablers in Industrial Sustainability TOPAM Ulrich Krupp (<i>IEHK, RWTH-AACHEN UNIVERSITY</i>)
11:05	Enabling the potential of Ceramic Matrix Composites for energy-intensive industries CEM-WAVE Roberto D'Ambrosio (<i>University of PISA</i>)
11:25	Novel Cr-based alloys strengthened by intermetallics for structural and coating applications at high-temperatures >800°C COMPASsCO2 Kan Ma (<i>University of Birmingham - UoB</i>) Mathias Galetz (<i>DECHEMA-Forschungsinstitut - DFI</i>)
11:45	Development of metal coatings by data/physics-based modelling of Compositionally Complex Alloys FORGE Alvise Bianchin (<i>MBN nanomaterialia s.p.a.</i>)
11:55	Questions and discussion

Participant projects



Contact and more information



Fernando Santos
AZTERLAN Metallurgy Research Centre
HIPERMAT Project coordinator

contact