

Free webinar

November

15th

Zoom platform

Novel high performance materials & components

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.

Participant projects

HIPERMAT

ACHiEF

COMPAS_sCO₂

topAM

CEM-WAVE

FORGE

Contact and more information



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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 (*AZTERLAN Metallurgy Research Centre*)

10:25

Rapid development of new materials through the use of a combined approach of generative and physics-based models

ACHIEF

Andrea Gregores Coto (*R&D Robotics & Automation*)

10:45

Material Design for Additive Manufacturing: Enablers in Industrial Sustainability

TOPAM

Ulrich Krupp (*IEHK, RWTH-AACHEN UNIVERSITY*)

11:05

Enabling the potential of Ceramic Matrix Composites for energy-intensive industries

CEM-WAVE

Roberto D'Ambrosio (*University of PISA*)

11:25

Novel Cr-based alloys strengthened by intermetallics for structural and coating applications at high-temperatures >800°C

COMPASsCO2

Kan Ma (*University of Birmingham - UoB*)

Mathias Galetz (*DECHEMA-Forschungsinstitut - DFI*)

11:45

Development of metal coatings by data/physics-based modelling of Compositionally Complex Alloys

FORGE

Alvise Bianchin (*MBN nanomaterialia s.p.a.*)

11:55

Questions and discussion

Registration

