

NOVEL CERAMICS AND COMPOSITES PROCESSING TECHNOLOGIES FOR ENERGY-INTENSIVE APPLICATIONS

27 SEPTEMBER, 2024

PISA, ITALY

AGENDA

9:00 - 9:15

Welcome and Introduction

Prof. Andrea Lazzeri
University of Pisa

9:15 - 9:45

From precursors to high performance fibers and ceramic matrix composites

Prof. Stefan Schafföner
*Chair of Ceramic Materials Engineering
University of Bayreuth*

9:45 - 10:15

Additive manufacturing of Ceramics from Preceramic Polymers

Prof. Paolo Colombo
University of Padova

10:15 - 10:45

COFFEE BREAK

10:45 - 11:15

Tailoring Adapted Ceramic Fibre Preforms by Wet Filament Winding Process

Dr. Alexander Konschak
*Fraunhofer-Institute for Silicate Research ISC
Center for High Temperature Materials and Design HTL*

11:15 - 11:45

MW-CVI production of large SiC-based CMCs for energy-intensive industries: a challenge won?

Dr. Roberto D'Ambrosio
*Institute for Chemical-Physical Processes,
National Research Council*

11:45 - 12:15

Why and how Micro-Wave Chemical Vapor Infiltration and other Thermal-Gradient Chemical Vapor Infiltration techniques can achieve optimal Ceramic-matrix Composites fabrication

Prof. Gerard Vignoles
*University of Bordeaux, CNRS, CEA, Safran:
Lab. for ThermoStructural Composites, LCTS*

12:15 - 12:45

Carbo ceramic materials for brake disc applications: 25 years of development Ceramic-matrix Composites fabrication

Dr. Marco Orlandi
Brembo SGL Carbon Ceramic Brakes Group

12:45 - 13:15

Innovative technical ceramics processing routes and solutions for different demanding applications

Dr. Riccardo Rovai
*Industrie Bitossi
Colorobbia Group*

13:15 - 15:00

LUNCH

15:00 - 15:30

Development of joining and surface engineering techniques for ceramics and composites under extreme environment

Prof. Valentina Casalegno
*Department of applied science and technology
Politecnico di Torino*

15:30 - 16:00

Research and Development of Braided CMC Technologies, SiC-CVI Joining and novel DLI-CVD EBCs at ATL for Demanding Combustion Environments

Dr. Calvin Prentice
Archer Technicoat Ltd

16:00 - 17:00

COFFEE BREAK

CLOSURE OF THE CONFERENCE