

# 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 Kenschak  
*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**

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*

**12:45 - 13:15**

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

Dr. Michael Farnham  
*Archer Technicoat Ltd*

**13:15 - 15:00**

**LUNCH**

**15:00 - 15:30**

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

Dr. Marco Orlandi  
*Brembo SGL Carbon Ceramic Brakes Group*

**15:30 - 16:00**

Innovative technical ceramics processing routes and solutions for different demanding applications

Dr. Riccardo Rovai  
*Industrie Bitossi  
Colorobbia Group*

**16:00 - 17:00**

**COFFEE BREAK**

**CLOSURE OF THE CONFERENCE**