

NOVEL CERAMICS AND COMPOSITES PROCESSING TECHNOLOGIES FOR ENERGY-INTENSIVE APPLICATIONS

27 SEPTEMBER, 2024

PISA, ITALY



DICI
DIPARTIMENTO DI INGEGNERIA
CIVILE E INDUSTRIALE



UNIVERSITÀ
DI PISA

AGENDA

9:00 - 9:15	Welcome and Introduction	Prof. Andrea Lazzeri <i>UNIPI</i>
9:15 - 9:45	From precursors to high performance fibers and ceramic matrix composites	Prof. Stefan Schafföner <i>Chair of Ceramic Materials Engineering - University of Bayreuth</i>
9:45 - 10:15	Additive manufacturing of Ceramics from Preceramic Polymers	Prof. Paolo Colombo <i>Università di Padova</i>
10:15 - 10:45	COFFEE BREAK	
10:45 - 11:15	Tailoring Adapted Ceramic Fibre Preforms by Wet Filament Winding Process	Dr. Alexander Konschak <i>Fraunhofer-Institute for Silicate Research ISC/Center for High Temperature Materials and Design HTL</i>
11:15 - 11:45	MW-CVI production of large SiC-based CMCs for energy-intensive industries: a challenge won?	Dr. Roberto D'Ambrosio <i>Istituto per i Processi Chimico-Fisici - IPCF-CNR</i>
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 <i>University of Bordeaux, CNRS, CEA, Safran: Lab. for ThermoStructural Composites, LCTS</i>
12:15 - 12:45	Carbo ceramic materials for brake disc applications: 25 years of development Ceramic-matrix Composites fabrication	Dr. Marco Orlandi <i>Brembo SGL Carbon Ceramic Brakes Group</i>
12:45 - 13:15	Innovative technical ceramics processing routes and solutions for different demanding applications	Dr. Riccardo Rovai <i>Industrie Bitossi - Gruppo Colarabbia</i>
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 <i>Politecnico di Torino</i>
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 <i>Archer Technicoat Ltd</i>
16:00 - 17:00	COFFEE BREAK	
CLOSURE OF THE CONFERENCE		