

MONDAY 28 SEPTEMBER

DRAFT PROGRAMME

Two rooms - Full programme

Sustainability
Descarbonisation
Advanced materials
Design and architecture
Geopolitics
Digitalisation

From 9.00 am to 6.00 pm – Business networking (Networking area)

ROOM 1

07:45 / 08:00	Buses · Handing over documentation
09:00–09:30	OPENING CEREMONY Institutional opening
09:30–10:30	KEYNOTE LECTURE European Geostrategy Challenges in the Era of Uncertainty Marco Simoni · IAI · Italy
10:30–11:00	Coffee Break & Networking
11:00–12:30	PANEL DISCUSSION The Green Competition Estela Li · Fernando Ripoll · Paulo Vigário · Jadra Mosa · João Labrincha (moderator)
12:30–13:00	PAPER Biomass projects for decarbonising thermal energy supply in the ceramics industry: savings and energy supply stability Lidia Roca · Magnon · Spain
13:00–13:30	PAPER Beyond conventional sintering: microwave sintering and fast firing of solid-state electrolytes Andrés Mormeneo-Segarra et al. · IUTM - UPV · Spain
13:30–14:00	PAPER LOFT® Stoneware and LOFT® Vitreous China: low-firing-temperature vitrified MCS ceramic bodies Miguel A. Freitas et al. · MCS · Portugal
14:00–15:30	Lunch Break & Networking
15:30–16:15	KEYNOTE LECTURE From digital transformation to AI transformation Carlos Iglesias · Runroom · Spain
16:15–17:30	PANEL DISCUSSION Every company has a plan... until AI lands its first blow Carlos Iglesias · Javier Portolés · Alfonso Díez · Raúl Soriano · Joaquín Luque (moderator)
17:30–18:00	PAPER Industrial inkjet printing: digital product passport-enabling technology for construction materials Yolanda Bautista · Limitronic · Spain
18:00–18:30	PAPER Organizational Digital Twins: From Systems Fragmentation to Comprehensive Governance Alfonso Díez · UGROUND Global · Spain

ROOM 2

11:00–11:30	PAPER Formulation and characterization of a pigmented ceramic paste for robocasting-based additive manufacturing in architecture Hélio Jorge et al. · CTCV · Portugal
11:30–12:00	PAPER Laser digital coloration of ceramics: the blue pigment case Abderrahim Lahlahi-Attalhaoui et al. · UJI · Spain
12:00–12:30	PAPER Practical aspects of automating acoustic resonance testing of complex-geometry ceramic roof tiles: towards replacing manual inspection Thierry Poirier · France / Belgium
12:30–13:00	PAPER Functional materials for 3D printing: from research to high value-added technology markets Ana Ferrández Montero et al. · ICV - CSIC · Spain
13:00–13:30	PAPER Effect of high-energy milled kaolin on the performance of ceramic glazes Adriano M. Bernardín et al. · UNESCO · Brazil
13:30–14:00	PAPER Cold sintering process: sustainability meets advanced ceramics processing Sergio Ferrer-Nicomedes et al. · UJI · Spain
14:00–15:30	Lunch Break & Networking
15:30–16:00	PAPER Energy savings certificates (ESCs) as a lever for competitive decarbonisation in the ceramics industry Rafael Herrero · Bettergy · Spain
16:00–16:30	PAPER Microwave-assisted firing in glazed ceramics Guillermo Monrós et al. · UJI · Spain
16:30–17:00	PAPER Additive manufacturing and electric firing of porcelain as a circular industrial strategy G. Fernandes et al. · UA · Portugal
17:00–17:30	PAPER CFD analysis of a ceramic kiln: towards efficient and low-carbon operation Gabriel.R Silva et al. · IPC · Portugal
17:30–18:00	PAPER Decarbonizing ceramic firing: assessment of alternative energy sources and industrial transition pathways Inês Rondão et al. · CTCV · Portugal
18:00–18:30	PAPER Fuel-injector redesign for hydrogen-enriched combustion in ceramic-industry burners Bruno Gouveia et al. · ULisboa · Portugal

TUESDAY 29 SEPTEMBER

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From 08.30 to 18.00 – Business networking (Networking area)

ROOM 1

08:00 Buses departing from the hotels to the congress venue

08:30–09:15 **KEYNOTE LECTURE**
Costa Nova Industria: Ecogres as a Model of Sustainability and Circularity in the Ceramic Industry
Jorge Carneiro · Grestel · Portugal

09:15–10:30 **PANEL DISCUSSION**
The Global Ceramic Powerhouses
Bruno Bettelli · Eddie Cheng · Sudipta Saha · José Vicente Tomás · Xavi Molina (moderator)

10:30–11:00 **KEYNOTE LECTURE**
China's Ceramic Industry Outlook 2026: Digitalisation, Decarbonisation, Advanced Materials, Global Competitiveness and Industrial Transformation
He Ying · Dongpeng Holdings · China

11:00–11:30 **Coffe Break & Networking**

11:30–12:15 **KEYNOTE LECTURE**
Artificial Intelligence for Smart Planning in the Ceramic Industry
Pablo Luque · Naitives · Spain

12:15–13:30 **PANEL DISCUSSION**
The Future is Ceramic
Eric Yang · Roberto Ferrari · Javier Sánchez · Germán F. de la Fuente · Miguel Galindo (moderator)

13:30–14:00 **PAPER**
Rethinking Ceramics and Glassware Production for a Sustainable Future
Cátia Carreira et al. · Vista Alegre · Portugal

14:00–15:30 **Lunch Break & Networking**

ROOM 2

08:30–09:00 **PAPER**
Detecting and compensating missing inkjet nozzles in ceramic tile printing
Juan Montero · MeteorInkjet · United Kingdom

09:00–09:30 **PAPER**
Functional porcelain tile façades
Javier Orozco-Messana · UPV · Spain

09:30–10:00 **PAPER**
A new digital–industrial operational resilience model: methodological proposal for implementation in connected industrial environments
José A. Serrano · eti_kode · Spain

10:00–10:30 **PAPER**
From telemetry data point to the energy twin: an OT–Edge methodology and semantic contextualisation for cost reduction in the ceramics industry
Valter Cartella · Spain

10:30–11:00 **PAPER**
Cyber security awareness in the processing industry
Keith Glynn · Stygian Vortex Security Consultants · U.S.A.

11:00–11:30 **Coffee Break & Networking**

11:30–12:00 **PAPER**
Next-generation ceramic claddings: sustainable innovation through a multilayer ceramic finishing system
Javier V.López · Reymansa · Spain

12:00–12:30 **PAPER**
Adaptive industrial architecture
Gabriel Monreal · Integrita Soluciones · Spain

12:30–13:00 **PAPER**
Bio-inspired design and nature-based solutions: theoretical foundations for the development of sustainable ceramic products in urban environments
Marcos A.Serafim et al. · CCB · Brazil

13:00–13:30 **PAPER**
Confined indentation as a viscoplastic triaxial test: development and validation of the YieldCompress® Method
Rui J. Conde et al. · MCS · Portugal

13:30–14:00 **PAPER**
Igniting Innovation Through Education: ceramics higher education as a strategic driver for industrial transformation
I. Nebot-Díaz et al. · ESCAL · ISEACV · Spain

14:00–15:30 **Lunch Break & Networking**

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ROOM 1

- 15:30–16:00** ■ **PAPER**
From the Draghi Report to the balance sheet
Max Sattouy · Omniversed · Spain
- 16:00–17:30** ■ **PANEL DISCUSSION**
Ceramics at the Heart of the Construction of Tomorrow
Kai Arendholz · José L. Fenollosa · Fernando Nasarre · Roger Krulak · Jordi Roviras (moderator)
- 17:30–18:00** ■ **PAPER**
Corporate Cybersecurity in the Age of IA: Fraud, Leakage and Agents
Ángel López · Sofistic · Cuatroochenta · Spain

ROOM 2

- 15:30–16:00** ■ **PAPER**
Use of rectified ceramic tile powder as a pozzolanic admixture for sustainable binders
Julia Hernández-Valls · UJI · Spain
- 16:00–16:30** ■ **PAPER**
Assessment of ceramic tile integrity using sound signals in non-destructive testing
Adriano M. Bernardin et al. · UNESCO · Brazil
- 16:30–17:00** ■ **PAPER**
Ceramic tile quality assessment schemes in Brazil
Ana P. Margarido et al. · CCB · Brazil
- 17:00–17:30** ■ **PAPER**
Evolution of respirable crystalline silica in zircon sand processing: origin, milling influence, and occupational implications
Jessica Gilabert et al. · ITC · AICE · UJI · Spain · United Kingdom

18:00–18:30

CLOSING CONFERENCE

Avelino Corma

Prince of Asturias Award for Scientific and Technical Research in 2014. Professor at the Institute of Chemical Technology (CSIC/UPV) · Spain

Next

Closing Ceremony · Bus departures

SCIENTIFIC POSTERS

DRAFT PROGRAMME
Research that breaks new ground

■ Sustainability
 ■ Decarbonisation
 ■ Advanced materials
 ■ Design and architecture
 ■ Geopolitics
 ■ Digitalisation

From 9.00 am to 6.00 pm – Poster exhibition (Main Hall)

P01

Wetland biomass and circular material futures
 William Hailiang Chen
 Norwich University of the Arts

United Kingdom

P02

Towards sustainable ceramic tile production: integrating market, technology, and energy choices
 Mateus Mesquita · Dachamir Hotza · Agenor De Noni Jr · Eliseo Monfort
 Federal University of Santa Catarina · Institute of Ceramic Technology (UJI)

Brazil · Spain

P03

Sustainable, circular, and low-carbon calcined aluminas for the ceramic tile production chain
 Marcelo Suster · Vinícius Menezes · Mateus Quintela · Paschoal Bonadia · Ana Paula Margarido
 ACTECH · Alumina Chemical Technology · Brazilian Ceramics Centre

Brazil

P04

Industrialized ceramic structural panels and the Brazilian framework for construction innovation
 Elaine G.P. Antunes · Larissa V. dos Santos · Ana Paula Margarido · Guilherme A. Parsekian
 Brazilian Ceramics Centre (CCB) · Federal University of São Carlos (UFSCar)

Brazil

P05

Sustainability and circularity in the ceramic tile industry: predictive modelling for the substitution of critical raw materials in porcelain tile production
 A. Valencia · N. El Guenani · E. Sánchez · V. Sanz · K. Kayaci · U. Taskiran · S. Turk · S. C. Genc
 ITC · Universitat Jaume I · Kaleseramik R&D Center · Istanbul Technical University

Spain · Turkey

P06

UP4GREEN - Demonstration of a sustainable process to produce high-performance ceramic tiles through industrial symbiosis
 Nelson Marques · Amélia Dias · Luc Hennevier
 RECER · Ceramics and Glass Technology Centre (CTCV)

Portugal

P07

Perovskite solid solutions based on titanates, zirconates, niobates and tungstates
 Georgi Georgiev · Radoslav Bozadzhiev · Lidiya Hristova · Lyudmil Bozadzhiev Jr.
 Oil Refinery Lukoil Neftohim Burgas · BS Global Consulting

Bulgaria

P08

Complex-shaped ceramic products by binder jetting additive manufacturing: study of the jetting process and binder formulations for an earthenware body
 Pedro Santos · S.Santos · H.Jorge
 Ceramics and Glass Technology Centre (CTCV)

Portugal

P09

From the purple of Cassius made by the Real Fábrica de L'Alcora to red inkjet ink
 Carolina Delgado · M. Llusar · G. Monró-Andreu · V. Esteve · J. Badenes · G. Monró
 Universitat Jaume I (UJI)

Spain

P10

Effect of silica and zirconia nanoparticles on surface roughness of polished glazed porcelain tiles
 José EduardoTavares Cordioli · Vicente de Lorenzi · Alexandre Zaccaron
 Graduate Program in Materials Science and Engineering · UNESC

Brazil

P11

Effect of digital inkjet ink compositions on the surface appearance of ceramic tiles
 Berkay Yazirli, Damla Yazici, Uğur Taşkıran, Kağan Kayaci, Vicente Sanz Solana, Enrique Sánchez Vilches
 Kaleseramik R&D Center · University Institute of Ceramic Technology (UJI)

Turkey · Spain

P12

Non-contact laser processing: an alternative to conventional mechanical cutting for large-format porcelain slabs
 Damla Yazici, Berkay Yazirli, Barış Can Engin, Ulaş Ülkü, Uğur Taşkıran, Kağan Kayaci, Jorge J. Bakali, German de la Fuente, Luis Alberto Angurel
 Kaleseramik R&D Center · INMA (CSIC - University of Zaragoza) · Bakali Consulting

Turkey · Spain

P13

Impact resistance of porcelain stoneware surfaces for use in furniture
 Talita Rosa · Daniel Hilgemberg · Agenor De Noni Junior · Dachamir Hotza
 Federal University of Santa Catarina · Portobello Revestimentos Cerâmicos

Brazil

P14

Challenges and future perspectives for Brazilian ceramic tiles in the global construction transition
 Marcelo Suster
 VALORA SUSTER · Business Consultancy and Training

Brazil

P15

AI-assisted workflows and additive manufacturing for porcelain production
 G. Fernandes · D. Vieira · J. Labrincha · S.M. Olhero
 University of Aveiro · PORCEL S.A.

Portugal

P16

Sustainability in the Ceramic Industry: Exploring the potential of Laser Radiation
 Jorge Carneiro et al.
 Grestel, Produtos Cerâmicos S.A.

Portugal

P17

Assessment of Wastewater Circularity in Industrial Sanitaryware Slips
 Marinélia N. Capela · Inês S. Vilarinho · Inês Brigas · Alexandra Rosmaninho · Maria Martins · Luís Ferreira · João A. Labrincha · Maria P. Seabra
 University of Aveiro · Sanindusa · Indústria de Sanitários

Portugal