



ADVANCE PROGRAMME

Block A - Ceramic company and markets

Block B - The use of ceramic tile in construction

Block C - The manufacturing of ceramic tile

Monday, February 8th, 2016

8.15 Shuttle Bus Service

8.30 Handing out of documentation

ROOM 1

ROOM 2

ROOM 4

9.30

Opening Ceremony

10.00 – 11.30 h

PANEL DEBATE

“The Globalisation of Ceramic Quality”

Members:

• **Zeynep Bodur Okyay**

Kale Group President and CEO **Turkey**

• **John Turner Jr.**

Dal-Tile Corporation President **USA**

• **Vittorio Borelli**

Fincibec CEO and Chairman of Cofindustria
Ceramica **Italy**

• **Fernando Roig**

Chairman of Pamesa Group **Spain**

Chaired by:

José Monzonís Salvia

Chairman at FICE (Spanish Federation of the
Footwear Industry). Ex-secretary of Industry
and Energy of Valencia Region

11.30 Coffee break

12.00 - 14.00 h

SESSION

PART I. INDIVIDUAL PRESENTATIONS

“The Factory of the Future”

Members:

• **Pietro Cassani.**

General Manager. Sacmi Group **Italy**

• **Franco Stefani**

President . System Group **Italy**

• **José Vicente Tomás**

President. Kerajet **Spain**

Chaired by:

Gustavo Mallo

Director of AICE (Ceramic Industry Research
Association)

12.00 h

“Estimation of the Influence of the Ceramic
Composition on Thermal Energy
Consumption”

A. Escrig, J. García-Ten, A. Mezquita, S.

Ferrer, V. Cantavella¹, E. Monfort

ITC – AICE. Universitat Jaume I. ¹ Currently at
Grupo Esmalglass – Itaca

Spain

12.30 h

“Simulation of Powder Rheological
Behaviour in the Ceramic Tile Pressing
Process”

Tiscar, J.M.⁽¹⁾, Escrig, A.⁽¹⁾, Mallo, G.⁽¹⁾,

Pascual, N.⁽¹⁾, Gilabert, F.A.⁽²⁾, Bonaque, R.⁽³⁾,

Pérez, J.A.⁽³⁾

⁽¹⁾ ITC –AICE. Universitat Jaume I. ⁽²⁾

Mechanics of Materials and Structures Group
(MMS), Dept. of Materials Science and
Engineering, Ghent University (UGent), ⁽³⁾
Macer, S.L.

Spain^(1,3) - Belgium⁽²⁾

12.00 h

“Architects and Technical Architects in the
Ceramic Industry: What am I doing here?”

*Pitarch Roig, Ángel M.; Sáez Riquelme,
Beatriz*

Ceramics classroom, Higher School of
Technology and Experimental Sciences,
Technical Architecture Universitat Jaume I

Spain

12.30 h

“SOLCONCER, a Helpful Tool for
Characterising Construction Solutions “
*A. Beltrán⁽¹⁾, I. Celades⁽¹⁾, J. Corrales⁽¹⁾, J.
Mira⁽¹⁾, A. Muñoz⁽¹⁾, A. Rioja⁽¹⁾, T. Ros⁽¹⁾, V.
Agost⁽²⁾.*

⁽¹⁾ ITC –AICE. Universitat Jaume I. Castellón..

⁽²⁾ Sig-o management

Spain

13.00 h

“Improvement of Segregation Problems during Powder Handling Operations”

Boix, J.⁽¹⁾, Aguilera, M.⁽¹⁾, Mallol, G.^(1,2), Llorens, D.^(1,2), Foucard, L.^(1,2)

⁽¹⁾ITC – AICE, ⁽²⁾ Universitat Jaume I. Castellón

Spain

13.30 h

“Development of a Semi-Wet Process for Ceramic Wall Tile Granule Production”

Kağan Kayacı⁽¹⁾, Ali Altıntaş⁽¹⁾, Yıldız Yıldırım⁽¹⁾, Çiğdem Yiğit Pala⁽¹⁾, Hasan Ergin⁽²⁾

⁽¹⁾Kaleseramik Inc., R&D Center, ⁽²⁾Mining Engineering/Faculty of Mines, Istanbul Technical University

Turkey

13.00-14.00

CONFERENCE

“Building Information Modelling”

Javier Alonso Madrid

Architect. BIM Manager. CEO at ATANGA.

Spain

14.00 Lunch break

15.30 – 17.00 h

SESSION

PART II. PANEL DEBATE

“The Factory of the Future”

Members:

• **Pietro Cassani.**

General Manager. Sacmi Group **Italy**

• **Franco Stefani**

President. System Group **Italy**

• **José Vicente Tomás**

President. Kerajet **Spain**

Chaired by:

Gustavo Mallol

Director of ITC-AICE (Ceramic Industry Research Association). **Spain**

15.30 h

“Pyroplastic Behaviour of Porcelain Stoneware Tiles: Comparison of the Wet And Dry Manufacturing Routes”

Lisandra R. dos Santos Conserva^{1,2}, Suelen Nastro^{1,2}, Fábio G. Melchades^{1,2}, Anselmo O. Boschi¹, Guia Guarini³, Mariarosa Raimondo³, Chiara Zanelli³, Michele Dondi³

¹LaRC, Dep. Engenharia de Materiais, Univ.

Federal de São Carlos, ²CRC, Centro Revestimentos Cerâmicos, São Carlos, ³CNR-ISTEC, Istituto di Scienza e Tecnologia dei Materiali Ceramici,

Brazil – Italy

16.00 h

“Comparison of Dry Grinding Technologies as a Reference of Ceramic Granule Technological parameters”

K. Kayaci⁽¹⁾, Y. Yıldırım⁽¹⁾, M. Tarhan⁽¹⁾, E. Durgut⁽¹⁾, H. Ergin⁽²⁾

⁽¹⁾Kaleseramik Çanakkale Kalebodur Seramik San. A.Ş., ⁽²⁾Mining Engineering Department, Istanbul Technical University

Turkey

16.30 h

“Influence of some Operating Variables on the Characteristics of Granules Obtained in a High Shear Granulator”

Segarra, C.; Cervantes, E.; García-Ten, F.J.; Quereda, M.F.

ITC - AICE. Universitat Jaume I

Spain

15.30 h

“Woven Ceramic Mosaic. Panel for Comprehensive Building Refurbishment”

Echarri, V.⁽¹⁾, Aldea, F. J.⁽²⁾, Gómez, G. J.⁽¹⁾, Romero del Hombrebueno, J.⁽²⁾

⁽¹⁾ Research Group “Technology and Sustainability in Architecture”, University of Alicante. ⁽²⁾ 4th year undergraduate reading Architecture., University of Alicante

Spain

16.00 h

“15 Years of Façade Engineering Design with Ceramic Tiles”

Jonas Silvestre Medeiros; Débora A. Moraes Binja; Murilo Blanco Mello

Inovatec Consultores Associados Ltda, São Paulo

Brazil

16.30 h

“Issues with Tile Installation Levelling Devices”

Colin Cass B.Ed. Dip. T.

Techtile Consulting Pty. Ltd

Australia

17.00 – 18.30 h

PANEL DEBATE

“Ceramic Company Managers and the International Scenario”

Members:

• **Ivo Moyano**

Product Development Manager, Dal-Tile Corp.
| Mohawk Industries **USA**

• **Eliseo Monfort**

Full Professor of Chemical Engineering (UJI)
Head of the Area for Sustainability (ITC) **Spain**

• **Emilio Estrelles**

Director WW Sales. EFI Cretaprint **USA - Spain**

• **Francisco Toledo**

Chairman of Port Castelló. Rector at
Universitat Jaume I from 2001 to 2010 **Spain**

Chaired by:

Juan Carlos Marín Gonell

FAS-Technical Manager for Application System.
Ferro Corporation. **Spain**

17.00 h

“A Study on the Effect of Granulated Powder on Bending Strength (Mor) & Water Absorption of "Monocottura" Floor Tile”

Gholam-Hosseini Mahdavi, Sirus Arjmandnia, Masoud Fouladkar

R&D Dept., Mashhad Firoozeh Tile Co.

Iran

17.30 h

“The Glass-Ceramic Process: an Alternative for Manufacturing Tiles from High Percentages of Inorganic Waste”

Ester Barrachina Albert¹, Ivan Calvet Roures¹, M^a Dolores Notari Abad², Jorge Llop Pla², Diana M. Aranzales Ochoa¹, Eugenia Claramonte Fortuño¹, Juan B. Carda Castelló¹.

¹Universitat Jaume I de Castelló. ²Escola Superior Ceràmica L'Alcora

Spain

18.00 h

“Monitoring of Borate and Fluoride Levels in Soils and Citrus Fruit Leaves in the Castellón Ceramic District Environment”

N. Fas, C. Gargori, S. Cerro, M. Llusar, G. Monrós.

Unit for Environmental Inorganic Chemistry and Ceramic Materials, Dept. of Inorganic and Organic Chemistry, Universitat Jaume I, **Spain**

18.30 h

“LIFECERAM. Zero Waste in Ceramic Tile Manufacture”

Quereda Vázquez, M^a Francisca⁽¹⁾; García-Ten, Francisco Javier⁽¹⁾; Ros Dosdá, T⁽¹⁾; Gil Albalat, Carlos⁽²⁾; Chumillas Villalba, David⁽³⁾; Zaera, Victoria⁽⁴⁾; Segura Mestre, M^a Carmen⁽⁵⁾.

⁽¹⁾ ITC - AICE. Universitat Jaume I, ⁽²⁾ Keros Cerámica S.A., ⁽³⁾ Chumillas & Tarongi, S.L., ⁽⁴⁾ ASCER, ⁽⁵⁾ Vernís, S.A.

Spain

17.00 h

“Architectural Engineering of Ventilated Ceramic Façades: Design, Performance and Market in Brazil”

Jonas Silvestre Medeiros, Rosana Yoshida, Marília Carraro, Renan Eiji Asamura, Marcelo Ferrarez Rebeschin

Inovatec Consultores Associados Ltda.

Brazil

17.30 h

“External Thermal Insulation Systems with Ceramic Skin”

María Bento Fernández

Head of Façade Systems. ITeC - Instituto de Tecnología de la Construcción de Cataluña.

Spain

18.00 h

“Technical and Environmental Comparative Analysis by LCA of Marble and Stoneware Flooring”

Escorihuela Sales, Coral; Pitarch Roig, Ángel M.

Dept. of Mechanical Engineering and Construction, Area for Architectonic Constructions. Higher School of Technology and Experimental Sciences. Universitat Jaume I.

Spain

18.30 h

“A sustainable alternative for ceramic tile wastes”

Debuena Pradillas, Patricia¹; Tomás Catalán, Ana Ester²; Reig Cerdà, Lucía²; Pitarch Roig, Ángel²; Palencia Guillén, Juan José²

¹Higher School of Experimental Science and Technology – Technical Architecture - Universitat Jaume I, ²Department of Mechanical Engineering and Construction- Universitat Jaume I

Spain

Shuttle Service

ROOM 1

8.30 h

“Study of Opacifiers in Ceramic Materials”

Simon Cook⁽¹⁾, Didier Arseguel⁽²⁾, Denham Ferguson⁽³⁾, Encarna Bou Solsona⁽⁴⁾, Fco. Javier García-Ten⁽⁴⁾, A. Moreno⁽⁴⁾, M^a José Vicente Carrasco⁽⁴⁾

⁽¹⁾ Rio Tinto, ⁽²⁾ Rio Tinto Iron & Titanium, Sorel-Tracy, Quebec, ⁽³⁾ Rio Tinto Iron & Titanium, Richards Bay, KwaZulu-Natal, ⁽⁴⁾ITC - AICE.

Universitat Jaume I

⁽¹⁾ UK - ⁽²⁾ Canada - ⁽³⁾ South Africa- ⁽⁴⁾Spain

09.00 h

SESSION**PART I. INTRODUCTION****“Digital Decoration. Advances in the Digital Decoration Technology of Ceramic Tiles”****• Vicente Sanz Solana**

Director of the University Institute for Ceramic Technology. Head of the Area for Nanotechnology and Printing Technologies. Associate Professor of Chemical Engineering.

Spain

09.30 – 11.00 h

SESSION**PART II. PANEL DEBATE****“Digital Decoration. Materials and Printheads manufacturers”****Members:****• Rafael Porcar.**

European Inkjet Business Manager. Ferro Corporation. Spain

• Jesús Fernández Valenzuela.

Inkjet Project Manager. Esmalglass-Itaca Group. Spain

• Francois Aguilar.

Head of the Sales and Marketing Printek Department. Seiko Instruments GmbH France

• Gillian Ewers.

Director of Marketing. Xaar. UK

• Shane O’Neill.

European Sales and Technical Support Manager. FUJIFILM Dimatix, Inc. USA – Spain

Chaired by:**• José Cabedo.**

General Manager Endeka Spain. COO Surface Products Endeka Spain

ROOM 2

9.00 h

“Incorporation of Phase Change Materials (PCM) in Ceramics for Building Applications”

Hélio Jorge and Luc Hennetier

Centro Tecnológico da Cerâmica e do Vidro

Portugal

9.30 h

“Photovoltaic Ceramic Tile based on Thin Film Technology”

I. Calvet, E. Barrachina, R. Martí, D. Fraga, A.Rey, T. Stoyanova Lyubenova, J. B. Carda

Universitat Jaume I

Spain

10.00 h

“Ceramic Tiles with High Ionising Radiation Attenuation”

Guaita, L.⁽¹⁾, Bengochea, M.A.⁽¹⁾, Lucas, F.⁽²⁾, Flors, M^a.R.⁽²⁾, Boix, J.⁽³⁾, Aguilera, M.⁽³⁾, Orts, M^a.J.⁽³⁾, Mestre, S.⁽³⁾,

⁽¹⁾ Keraben grupo, S.A., ⁽²⁾ Kerafrit, S.A., ⁽³⁾ ITC - AICE, Universitat Jaume I.

Spain

10.30 h

“Impact Resistance of Porcelain Stoneware Tiles: a Phenomenological Approach”

Dondi M., Guarini G., Raimondo M., Zanelli C.
CNR-ISTEC, Istituto di Scienza e Tecnologia dei Materiali Ceramici

Italy

ROOM 4

8.30 h

“Reducing the Atmospheric Emissions of CO2 during the Fabrication of Single-Fired Porous Tiles”

Fábio G. Melchades¹, Douglas F. de Souza¹, Lisandra R.S. Conserva², Suelen Nastro², Alvaro P. Leite², Anselmo O. Boschi²

¹ Centro de Revestimentos Cerâmicos – CRC, ²UFSCar. Departamento de Engenharia de Materiais – DEMa. Laboratório de Revestimentos Cerâmicos – LaRC

Brazil

9:00 h

“Cleanability of “LAPPATO” Porcelain Stonewares”

Maria Soranzo¹, Elisa Rambaldi², Francesca Prete², Giuliana Bonvicini², Maria Chiara Bignozzi^{2,3}.

¹ Fila Industria Chimica Spa, ² Centro Ceramico Bologna, ³ Department of Civil, Chemical, Environmental and Materials Engineering, University of Bologna

Italy

9.30 h

“Porcelain tile behaviour under cutting. Relationship with residual stresses”

D.G.G. Delavi¹, J. García-Ten², A. Saburit², A. Escrig², D. Hotza¹

⁽¹⁾ Universidad Federal de Santa Catarina – UFSC, ⁽²⁾ ITC -AICE. Universitat Jaume I.

⁽¹⁾ Brazil - ⁽²⁾ Spain

10.00 h

“Green Ceramic Tiles: the Sustainable Use of Natural Resources as Basic Requirement”

Elisa Rambaldi¹,Giuliana Bonvicini¹,Maria Chiara Bignozzi^{1,2}

¹ Centro Ceramico Bologna, ² Department of Civil, Chemical, Environmental and Materials Engineering, University of Bologna

Italy

10:30 h

“Valorization of boiler wood ashes in the ceramic industry”

Laurent Soum; Gérard Pillet
Société Française de Céramique (SFC)

France

11:00 Coffee break

11.30 – 13.00 h

SESSION

PART III. PANEL DEBATE

“Digital Decoration. Machinery and Tiles Manufacturers”

Members:

- **Diego F. Jaramillo**
Corporate Chief Technology. Corona Organization **Colombia**
- **Máximo Dolz**
Technical Director. Grespania **Spain**
- **Benedetto Spinelli**
Vice director Ceramic Laboratory. Sacmi. **Italy**
- **Paolo Casarini**
Product Supervisor. System Group **Italy**
- **José Vicente Tomás**
President . Kerajet. **Spain**

Chaired by:

- **Viente Sanz**
Director of the University Institute for Ceramic Technology. Head of the Area for Nanotechnology and Printing Technologies. Associate Professor of Chemical Engineering. **Spain**

13.00 h

“Lustre Effect: Mechanism and Influence of Particle Size”

C. Rubert⁽¹⁾, J. Manrique⁽¹⁾, J. Usó⁽¹⁾, M.J. Orts⁽²⁾, F.J. García-Ten⁽²⁾, A. Gozalbo⁽²⁾, E. Bou⁽²⁾, R. Pérez⁽²⁾,
⁽¹⁾Ferro Spain, S.A, ⁽²⁾ ITC - AICE. Universitat Jaume I.

Spain

13.30 h

“Digital Decoration of Ceramic Slabs with High Colourfulness”

A. Bresciani⁽¹⁾, C. Ricci⁽¹⁾, B. Spinelli⁽¹⁾, W. Medici⁽²⁾

⁽¹⁾ SACMI, Imola BO, ⁽²⁾ INTESA, Casalgrande RE,

Italy

11.30 h

“The Ceramic Industrial Sector: Formulating a Competitive Strategy. Strategic Groups”

José Luis Quintela Cortes

IAG INGENIEROS.

Spain

12.00 h

“China’s Domestic Ceramics Market: A great opportunity for European companies”

Beatriz Irún⁽¹⁾, Miguel A. Moliner⁽²⁾

⁽¹⁾ SOUYOU, ⁽²⁾ IMK Innovación en Marketing, UJI,

China – Spain

12:30 h

“Opportunity under Revolution in China Ceramics Industry”

Grace Tian

Ceramic Town Weekly

China

13.00 h

“Chasing the Dragon’s Tail – Keeping Track of Ceramic Tile Quality in China”

Jorge Masbate⁽¹⁾⁽²⁾, Shaun Baxter⁽²⁾, Jack Zhang⁽³⁾

⁽¹⁾ UWA Business School, University of Western Australia, Perth. ⁽²⁾ Iluka Resources Ltd, Perth, ⁽³⁾ Iluka Trading (Shanghai) Co., Ltd ⁽¹⁻²⁾ **Australia** - ⁽³⁾ **China**

13.30 h

“Validation of a Pilot Management Scheme for Ceramic Tile Manufacturing”

Alvaro Remolar Vaquer⁽¹⁾, Javier Araujo⁽²⁾,

⁽¹⁾Consultant, ⁽²⁾ Honeywell Spain technical support

Spain

11.30 h

“New Practice-Oriented Testing Possibilities regarding the Durability of Slip Resistance and Cleanability”

Marcel Engels

FGK Forschungsinstitut für Anorganische Werkstoffe,-Glas/Keramik- GmbH, Höhr-Grenzhausen

Germany

12.00 h

“Can we Develop Slip Resistance Metrics that Ensure Appropriate Tile Selection?”

Richard Bowman

Intertile Research

Australia

12.30 – 14.00 h

SESSION

PART I. INDIVIDUAL PRESENTATIONS

“Standards Drafting and the Use of Ceramic Tiles in Construction”

Members:

- **James Woelfel**
President. US National Tile Contractors Association. **USA**
 - **Rainer Reichelt**
Head of the Technical Department, Schlüter Systems. **Germany**
 - **Gonzalo Silva Moreno**
Secretary. Head of the Area for Product and Constructive Solutions. ITC-AICE **Spain**
 - **Svend Hovmand**
Chairman of ISO TC 189 **USA**
- Chaired by:**
- **Bart Bettiga**
Executive Director. National Tile Contractors Association, NTCA **USA**

14.00 Lunch break

14.00 Lunch break

15.30 h

“New Trends in Digital Inkjet Inks and Digital Inkjet Glazes for the Ceramic Field. Formulations of Aqueous Digital Inkjet Inks and Glazes”

Niklas Kircher⁽¹⁾, Roger Escámez⁽²⁾

⁽¹⁾ Byk Chemie, ⁽²⁾ Comindex SA,

⁽¹⁾ **Germany** - ⁽²⁾ **Spain**

16.00 h

“Investigating the Relationship between Nozzle Size and Particle Size in Inkjet Ceramic Tile Printing”

Nigel Caiger¹, Mark Bale¹, Ramón Bono²

⁽¹⁾ Sun Chemical, ⁽²⁾ SUNIC

United Kingdom – Spain

16.30 h

“Actual Resolution in Ink-Jet Printing of Ceramic Tiles: Preliminary Assessment of Imprint Size under Different Operating Conditions”

Paolo Zannini¹, Giorgia Ferrari¹, Laura Ganzerli¹, Davide Gardini², Michele Dondi²

¹Dept Chemical and Geological Sciences, University of Modena and Reggio Emilia, ²CNR-ISTEC, Istituto di Scienza e Tecnologia dei Materiali Ceramici,

Italy

17.00 h

“Kaolin for Digital Ceramic Decoration”

Cédric Poilly, Luc Bourgy

Imerys Ceramics

France

17.30 h

“Study of Interface and Surface Properties in Multilayer Ceramic Systems”

A. Moreno⁽¹⁾, J.L. Amorós⁽¹⁾, E. Blasco⁽¹⁾, J.J. Pérez⁽²⁾, S. Navarro⁽²⁾, S. Reverter⁽²⁾

⁽¹⁾ ITC – AICE. Universitat Jaume I. ⁽²⁾Color

Esmalt, S.A.

Spain

18.00-19.00

CONFERENCE

“Projects for the future. Luis Vidal – Architects. ”

• **Francisco Sanjuán**

Director at Luis Vidal + Architects office in Houston, USA, and Associate Architect in the firm

Closing Ceremony ROOM 1

Shuttle Bus Service

15.30 h

Workshop

“Innovation in three axis of ceramic sector: taking advantage of other sectors success to innovate”

Partner-Director at Sastre & Asociados

Spain

16.30 h

“An Integrated Dashboard for the Ceramic Sector based on Big Data Business Intelligence”

Javier Sánchez-García, Luis Callarisa-Fiol, Rosa Rodríguez-Artola, Miguel Ángel Moliner-Tena

IMK-Innovation in Marketing Research Group
Universitat Jaume I

Spain

17.00 h

“Business opportunities for ceramics in Smart Cities”

Casado, MG⁽¹⁾ Veral, S⁽¹⁾, Lázaro, V⁽¹⁾, M. Toumi⁽²⁾, E. Uviedo⁽²⁾

ITC – AICE, Universitat Jaume I. ⁽²⁾ Spanish Ceramic Tile Manufacturers' Association (ASCER)

Spain

17.30 h

“Customer-Supplier Relationships in the Development of the Ceramic Cluster”

P. Corma

QPT S.L.

Spain

15.30 – 16.30 h

SESSION

PART II. PANEL DEBATE

“Standards Drafting and the Use of Ceramic Tiles in Construction”

Members:

• **Francisco Sanjuan**

Luis Vidal + Architects Houston Office

Director **Spain - USA**

• **James Woelfel**

President. US National Tile Contractors Association. **USA**

• **Rainer Reichelt**

Head of the Technical Department, Schlüter Systems. **Germany**

• **Gonzalo Silva Moreno**

Secretary. Head of the Area for Product and Constructive Solutions. ITC-AICE **Spain**

• **Svend Hovmand**

Chairman of ISO TC 189 and Chairman Emeritus at Crossville. **USA**

• **Alejandra Miralles**

Head of the Spanish delegation at TC 189 **Spain**

Chaired by:

• **Bart Bettiga**

Executive Director. National Tile Contractors Association, NTCA **USA**