



## MARTES, 2 DE MARZO 2010

### BLOQUE 1. EXPLORACIÓN Y EXPLOTACIÓN “Salón Europa”

#### 15.30 h. **Aprovechamiento integral y sostenible de las rocas y minerales industriales: piedra natural**

*D. Salvador Ordóñez Delgado*

*Rector de la Universidad Internacional Menéndez Pelayo*

#### 16.00 h. **Comunicaciones libres BLOQUE 1**

**S1-01** Evolution of a marble quarry: from open cast to underground exploitation

*Nicola Careddu, Giampaolo Siotto, Andrea Tuveri*

**S1-02** Granite dimension stone potential of Turkey and unexpected geological factors effective on the quality of granite

*Osman Serkan ANGI*

**S1-03** Some important facts for estimation of natural stone deposits during the exploration

*Ivan Tomašića, Ana Kršinića*

**S1-04** Suggested guidelines for sampling dimension stones for laboratorial tests

*Fabiano Cabañas Navarro*

**S1-05** Quarrying planning for the local productive cluster of limestone of the cariri region – state of ceará, northern Brazil.

*Carlos Cesar Peiter, Nuria Fernández Castro, Edson Farias Mello, Francisco Wilson Hollanda Vidal,*

**S1-06** “Schistose” rocks as a resource

*Fernando Noronha, Mónica Sousa, Cristina Carvalho, António Casal Moura, João Farinha Ramos, Rui Moura*

**S1-08** Utilización de los sistemas de información geográfica (sig) para seleccionar la mejor ubicación de una cantera de roca ornamental en un yacimiento, en función del impacto visual

*Antonio Espín de Gea*



17.45 h. **Mesa redonda**

*Moderada D. Björn Schouenborg*

Dr. Mineralogía y Petrología

Coordinador de Actividades Europeas- CBI (Centro Sueco de Innovación de Piedra y Roca en Construcción)

**MIÉRCOLES, 3 DE MARZO 2010 (Sesión Paralela)**

## **BLOQUE 2. ELABORACIÓN Y PROCESADO “Salón Europa”**

09.30 h. **Avances y desafíos para la industria de procesamiento de piedra**

*D. Luis Guerra Rosa*

*Profesor Ingeniería de Materiales, Universidad Técnica de Lisboa*

10.00 h. **Comunicaciones libres BLOQUE 2**

**S2-01** Inducing energy storage properties in white dolomitic marble tiles – Industrial tests and property evaluation

*M.A. Founti , I. Mandilaras , M. Patronis and K. Laskaridis*

**S2-04** New standard methodologies to classify the efficiency of diamond cutting discs

*C.A. Anjinho , A. Coelho , P.M. Amaral , J.C. Fernandes , L.G. Rosa*

**S2-06** Processing characteristics of “Bege Bahia”, a Brazilian travertine-like limestone

*Maria Heloisa Barros de Oliveira Frascá , Fabiano Cabañas Navarro*

**S2-20** Portuguese natural stone cluster – the secure base for the success of portuguese natural stone

*António Costa Dieb , Marta Peres*

11.00 h. **Pausa café.**



## 11.30 h. Comunicaciones libres BLOQUE 2

**S2-19** Process and Tool Design for High Speed Cutting of Granite

*Denkena, Berend; Bockhorst, Jens; Seiffert, Florian*

**S2-11** Surface treatment of stone elements by water jets

*A. Bortolussi , N. Careddu, R. Ciccu , G. Costa*

**S2-12** A comparison between different cutter systems for Mahallat travertine dimension stone

*Asghar Laderian*

**S2-15** Process Analyses in Cut-off Grinding of Stone Compound Material

*Denkena, Berend; Konopatzki, Benjamin; Buhl, Josef-Christian; Robben, Lars*

**S2-16** Performance assessment of water jet cutting in reference to depth and width of cut for Sardinian basalto

*Ozcelik, Y., Gursel, M., Ciccu, R., Costa, G., Bortolussi, A.,*

**S2-02** Computer vision applied to classification of macael white Marble

*P. García Carricondo, A.J. Cortés Izurdiaga, L. Gonzalez Teruel, M.A. Muñoz*

## 13.00 h. Mesa redonda.

*Modera D. Carlo Montani*

*Director Editorial Científico de la División de Piedra Natural de Il Sole-24 Ore Business Media*

## 13.30 h. Almuerzo.

## BLOQUE 3. MEDIO AMBIENTE “Salón Europa”

### 15.30 h. Indicadores del Desarrollo Sostenible para el Desarrollo de la Piedra:

**lo que realmente interesa**

*D. Carlos Peiter,*

*Coordinador de Planificación y Gestión, Centro de Tecnología Mineral CETEM, Brasil*

## 16.00 h. Comunicaciones libres BLOQUE 3



**S3-06** Environmental considerations of marble products

*Obis Sánchez, Joaquín, Pérez Lorenzo, Agripino, Díaz Rubio, Roberto*

**S3-09** Best practices in Umbria region for rehabilitation of quarry and mine areas.

*Michele Cenci, Andrea Monsignori, Endro Martini, Giovanni Natale*

**S3-13** Frits from natural stone wastes for obtention of composites applied as construction materials

*J. Ma. Rincón, M. Romero*

**S3-01** Recovery and reuse of marble powder by-product

*Graziella Marras, Nicola Careddu, Claudia Internicola, Giampaolo Siotto*

**S3-15** IDStone

*S. López, V. Martínez, J. Peñataro*

**S3-03** Environmental Management Aspects for Energy Saving in Natural Stone Quarries

*M.A. Founti, D. Giannopoulos and K. Laskaridis*

17.30 h. Pausa café

17.45 h. **Comunicaciones libres BLOQUE 3**

**S3-05** Reclamation of contaminated mine ponds using marble wastes and organic amendments

*Angel Faz; D.M. Carmona, R. Zornoza, J.A, Acosta, S. Martínez-Martínez, E. López, F. Cortés*

**S3-04** Rapid Prototyping techniques for use in conjunction with natural stone powders and aggregates

*S. Theodoridou, K. Savidis, K. Laskaridis, M. Founti*



**S3-08** The show room of change

*J.C. Diosdado, F.J. Cruz, C. Bendala, F.J. Martínez, M. García*

**S3-07** Reuse of carbonated mud to eliminate heavy metals from acid water

*M. Sánchez Polo, L. Sánchez Bajo, A. Ruiz Sánchez, M.J. Ruso Martínez*

18.45 h. **Mesa redonda.**

*Modera D. Antonio Costa Dieb*

*Director General de CEVALOR- Centro Tecnológico para o Aproveitamento e Valorização das Rochas Ornamentais e Industriais*

## MIÉRCOLES, 3 DE MARZO 2010 (Sesión Paralela)

### PARALELAS “Salón Almirante”

10.15 h. El Sonido de la Piedra,

D. Iván Larrea

Constructor de Órganos de Piedra

11.30 h. Presentación de **Comunicaciones libres BLOQUE 4**

**S4-02** Partial Safety Factors in Dimensioning Stone Design

*José Lello ,Rui Camposinhos*

**S4-04** “Azul Valverde” slabs applied on exterior cladding – degradation and alteration study

*J.A.R. Simãoa, C. Galhanoa, Vera Piresb, P.M. Amaralb*

**S4-07** Consolidation of ornamental stone by microbial carbonatogenesis

*Fadwa Jroundi, Eulogio J. Bedmar, Carlos Rodriguez-Navarro, Maria Teresa González-Muñoz*

**S4-14** Efflorescence occurrence in Crema Marfil Marble

*JM Cuevas, C. Guillem, R. Correoso, AM López-Buendía*

12.30 h. Presentación **Comunicaciones libres BLOQUE 5**

**S5-05** evaluation of mortars by UV-VIS-NIR diffuse reflectance



M. Serrano, L. Sánchez, I. Martínez, A. Romerosa, J.M. González

**S5-16** Determination of radioactivity levels and hazards of ornamental stone samples in Extremadura region

J.M. Ávila Macías, C. Pacheco Menor, JM Meneses Rodríguez and C. Miró Rodríguez

**S5-14** Improvement of surface properties of natural stone by means of acrylic-siloxane hybrid treatment

V. Forrat-Pérez, C. Guillem-López, N. Baeza-Baeza, A.M. López-Buendía, M.D Romero Sanchez

**S5-08** Serpentinite: a fascinating and complicated rock

Dolores Pereira, José António Blanco, Mercedes Peinado, Juan José Tejado, Óscar Ercilla, Mariano Yenes, Serafín Monterrubio

## 13.30 h. Almuerzo

16.00 h. Presentación de **Comunicaciones libres BLOQUE 2**

**S2-05** Customised stone surface quality classification procedure

A.S. Marques, P.M. Amaral, L.G. Rosa, J.C. Fernandes, C.A. Anjinho

**S2-10** Automatic tone grading system for granite tiles

Juan Carlos Catalina, Gonzalo Fernández Ramón

**S2-14** Improved toughness and stiffness of marble tiles by thin coatings of unsaturated polyester resin filled with natural nanoclay

Verónica Morote-Martínez, Rafael Torregrosa-Coque, José Miguel Martín-Martínez

**S2-17** Performance analysis of a diamond bead in its lifetime by using single bead test machine

Ozcelik, Y, Yilmazkaya, E.

## 17.00h. Pausa café

17.15 h. Presentación **Comunicaciones libres BLOQUE 2**

**S2-21** Parallel Robot Optimization for Marble Processes Treatment

J.M. Rodes, J.M. Sabater, V. González, J. Martínez

**S1-07** Embodied Energy of quarrying and manufacturing: Its value in promoting natural stone

Thomas P. Simpson, Barry J. Cooper and Stephen Pullen

**S2-18** Experimental industrial plant

# Global Stone Congress 2010



2 - 5 / MARCH / 2010 Alicante (Spain)

A. Cortés Izurdiaga, L. González Teruel, L. Pérez Zamora, S. López Molina

**S2-22** Prospects for natural stone from Spain in 2010: identifying new paths of growth

R. Porcar Guerrero, L. Irusta Aguirre

FIN SESIONES PARALELAS 18.15



## JUEVES, 4 DE MARZO 2010

### BLOQUE 4. PIEDRA NATURAL EN ARQUITECTURA “Salón Europa”

#### 09.30 h. Piedra, Papel y Tijera

*Dña. María José de Blas y D. Rubén Picado*

*Arquitectos y profesores de Proyectos de la UPS-CEU, Madrid*

#### 10.00 h. Comunicaciones libres BLOQUE 4

**S4-16** Stone Solutions for Exterior Applications: Mediterraneo & Urban series

*D.García*

**S4-01** Prestressing stone – an innovative cladding façade system

*José Lello ,Rui Camposinhos*

**S4-03** 3D stone simulator - possibilities of interface and results

*Zampirolli, Ludson Moulin , Silva, Eduardo Conzendey, Zampirolli, Yuri  
Moulin*

**S4-10** Ventilated façades with stone cladding. Mechanical behaviour, constructive and formal factors, durability and damages

*Carlos Pérez Carramiñana, Mónica Mateo García, Beatriz Piedecausa  
García*

#### 11.00 h. Pausa café.

#### 11.30 h. Comunicaciones libres BLOQUE 4

**S4-06** Granites with discolouration - How to avoid them

*Björn Schouenborg , Bent Grelk, Magnus Döse , Jan Erik Lindqvist &  
Urban Åkesson*

**S4-08** Expert system for dimensioning of façade cladding

*Lars Jacobsson , Mathias Flansbjer, Björn Schouenborg , Bent Grelk &  
Arwen Smits*

**S4-15** Energy efficiency contribution of the natural stone: approach in processing and application

*AM Lopez-Buendia, MD Romero, JM Rodes*



**S4-13** Chromatic degradation of white marbles

*Paolo Davini*

**S4-11** System of ventilated facades with granite of low thickness

*Mota, M.I.; Gavilán, M.; Pérez, C.*

**S4-09** Ventilated façade of stone: factors that influence in the colonization of granite

*Francisco Javier López Rivadulla, Patricia Alonso Alonso*

13.00 h. **Mesa redonda**

*Modera D. Marcantonio Ragone*

*Arquitecto, Internazionale Marmi e Macchine Carrara*

13.30 h. **Almuerzo**

## **BLOQUE 5. CARACTERIZACIÓN Y NUEVOS PRODUCTOS “Salón Europa”**

15.30 h. **Propiedades de la Piedra Natural para la Arquitectura: reflexiones sobre su problemática actual y propuestas para el futuro**

*D. Fernando López G-Mesones*

*Dr. Ingeniero de Minas, profesor titular de la Universidad Politécnica de Madrid*

16.00 h. **Comunicaciones libres BLOQUE 5**

**S5-06** Slate flexural and anchorage strength considerations in cladding design

*V. Pires, P.M. Amara, L.G. Rosa, R. Camposinhos*

**S5-01** AGA- The method to demonstrate the relationship between microstructure and bowing properties of calcite marble claddings

*Urban Åkesson, Jan Erik Lindqvist and Björn Schouenborg*

**S5-07** Analysis of thermal effect on the mechanical behaviour of natural and engineered Stones

*J.P. Lam dos Santos, P.M. Amaral , L.G. Rosa*



**S5-12** Natural Stone classification and specifications review

*Joaquín Bastida , Angel López Buendía , Mar Urquiola*

17.00 h. Pausa café

17.15 h. **Comunicaciones libres BLOQUE 5**

**S5-03** Technological characterization and recommendations for use of two ithoarenites from the Pyrenees (Spain)

*Oscar Buj Fandos , Josep Gisbert Aguilar*

**S5-04** Characterization and distinction of macael white Marble

*L. Sánchez Bajo, A. Romerosa Nievas, M. Serrano Ruiz, I. Martínez Soler*

**S5-13** Phase Change Materials as thermal energy storage incorporated to natural stone

*M.D Romero Sanchez, N. Baeza-Baeza, J.M. Cuevas-Castell, A.M. López Buendía*

18.00 h. **Mesa redonda**

*Modera Dña. Paola Blasi*

*Dra. Geóloga, Internazionale Marmo e Machine Carrara*

18.30 **Clausura Oficial del Congreso**