



INTERNAZIONALE  
MARM E MACCHINE  
CARRARA SpA



CARRARA  
MARMOTEC  
2016

# SUSTAINABLE STONE

CONFERENCE

## 1<sup>st</sup> INTERNATIONAL SUSTAINABLE STONE CONFERENCE Carrara, 20 May 2016

In the framework of the next edition of Carrara Marmotec 2016, International Fair of Marble, Technologies and Design (18-21 May 2016), a new event on the topic of sustainability in the field of natural stone Industry will see the light.

The conference aims to give an up-to-date overview of the research on the topic of sustainability at an international level and provides actual cases and best practice examples from the international stone industry excellence.

The conference will deal with topics concerning the application and demonstration of sustainable solutions and production systems in the sector of raw materials and construction, to improve environmental, economic and social impacts.

The conference will be organized in three parallel sessions:

- **Environmental Sustainability:** recovery and recycling of waste and sludge resulting from processing systems, saving resources and energy systems, environmental impact assessment systems (Life Cycle Assessment), management systems and environmental labels.
- **Planning and Socio-economic Sustainability:** international best practices for the assessment of social impact, methods for the measurement of shared value, business networks, innovation, creation of local added value, and Industrial tourism.
- **Sustainable Architecture and Ecodesign with Natural Stone:** Sustainable design, Eco-friendly products, Creative recycling

**Participation in free** of charge but registration is required. Please fill-in the form available at:

[www.carraramarmotec.com/it/sustainable-stone-conference/registration.asp](http://www.carraramarmotec.com/it/sustainable-stone-conference/registration.asp)

**Simultaneous translation will be provided (Italian/English)**

Nell'ambito della prossima edizione di Carraramarmotec - International Fair of Marble Technologies and design (18-21 maggio 2016) debutterà un nuovo evento sul tema della sostenibilità nel settore della pietra naturale.

L'evento vuole promuovere la creazione di una piattaforma di incontro, discussione e scambio, tra il settore dell'innovazione e le imprese, sul tema dell'economia circolare e la sostenibilità nel settore lapideo.

Gli argomenti trattati riguarderanno l'applicazione e la dimostrazione di soluzioni e produzioni sostenibili nel settore delle materie prime nel settore delle costruzioni per ridurre gli impatti ambientali, economici e sociali.



La conferenza sarà organizzata in tre sessioni parallele:

- **Sostenibilità ambientale:** recupero e riciclo dei rifiuti e dei fanghi di lavorazione, sistemi di risparmio delle risorse e dell'energia, valutazione dell'impatto ambientale (Life Cycle Assessment), sistemi di gestione ed etichettature ecologiche.
- **Pianificazione e Sostenibilità socio-economica:** best practice internazionali per la valutazione degli impatti sociali, metodi per la misura del valore condiviso, reti di imprese, creazione del valore aggiunto locale, turismo Industriale.
- **Architettura Sostenibile ed Ecodesign con la pietra naturale:** progettazione sostenibile, prodotti Eco-friendly, riciclo creativo.

La **partecipazione è gratuita**. Si richiede la registrazione al seguente indirizzo:

[www.carraramarmotec.com/it/sustainable-stone-conference/registration.asp](http://www.carraramarmotec.com/it/sustainable-stone-conference/registration.asp)

**E' previsto il servizio di traduzione simultanea (Italiano/Inglese)**

  **Sono stati richiesti 8 APC alla Commissione Nazionale APC del Consiglio Nazionale dei Geologi**

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10:00 – 10.15 *Registration*

10.15 – 10.30 *Welcome to the Conference.* Fabio Felici - President of Internazionale Marmi e Macchine Spa

PLENARY SESSION - Sustainability and circular economy in the stone sector -h. 10.00

Michelangelo Conference Hall

Keynote Speakers:

- ***Sustainability – An Introduction to the ANSI Approved Standard for the Sustainable Production of Natural Dimension Stone.*** Jim Hieb and David Castellucci – Marble Institute of America
- ***Sustainability of stone and EU raw materials policy.*** Gian Andrea Blengini – European Commission DG JRC

11.30-11.45 *Coffee break*

- ***Ecodesign with natural stone.*** Peter Becker – Stone-Ideas.com
- ***Sustainable buildings and Sustainable Materials. To reduce the environmental impacts on our planet and spread the circular economy.*** Marco Mari – Green Building Council Italy

13.00 – 14.00 *Light Lunch*

PARALLEL SESSION ENV - Environmental Sustainability - h. 14.00

Michelangelo Conference Hall

Chair: Andrea Lucioni - Secretary of GBC Italia Toscana Chapter

- ***Biodynamic and environmental sustainability.*** Andrea Parodi, Manuela Ojan - Italcementi Spa
- ***Dimension stones sustainability: basic considerations and reflections.*** Piero Primavori - Dimension Stone International Consultant
- ***Environmental management systems and Environmental labels.*** Lorenzo Orsenigo - ICMQ
- ***Life cycle assessment of Italian ornamental stones. Analysis of processes and development of an adaptable model.*** Bianco Isabella, Blengini Gian Andrea - Polytechnic of Torino
- ***The management of the marble districts and the definition of new environmental policies through the integrated contribution of Life Cycle Assessment and GIS.*** Marco Migliore, Monica

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Lavagna, Cinzia Talamo - Polytechnic of Milano, Department of Architecture, Building Environment and Construction Engineering

- **Natural Stone – the environmental balance of facades.** Reiner Krug - DNV- German Natural Stone Association
- **Exploring a methodological approach to evaluate the environmental benefits of an innovative industrial process,** Antonio Scipioni<sup>1</sup>, Anna Mazzi<sup>1</sup>, Marco Mason<sup>1</sup>, Sara Toniolo<sup>1</sup>, Stefano Cangilioli<sup>2</sup> - (1) CESQA University of Padova, Department of Industrial Engineering, (2) La Borghigiana srl
- **Measuring the sustainability of the sandstone of Firenzuola: the contribution of the Life Cycle Assessment.** Maria Chiara Torricelli<sup>1</sup>, Elisabetta Palumbo<sup>1,2</sup> - (1) University of Firenze – Department of Architecture, (2) University of Florence
- **Filler calcium carbonate industrial applications: the way for enhancing and reusing marble slurry.** Graziella Marras<sup>1</sup>, Nicola Careddu<sup>1</sup>, Giampaolo Siotto<sup>2</sup> – (1) DICAAR, University of Cagliari, (2) Mediterranea Progetti e Finanza s.r.l.
- **Preliminary investigations on stonecutting sludge precessing fora future recover.** Lorena Zichella, Matteo Berruero, Rossana Bellopede, Paola Marini - Polytechnic of Torino (Italy)
- **Quarry waste management: a new territorial and industrial approach in Carrara basin.** Giovanna Antonella Dino<sup>1</sup>, Claudia Chiappino<sup>2</sup>, Piergiorgio Rossetti<sup>1</sup>, Alberto Franchi<sup>3</sup> - (1) University of Torino Earth Science Department, (2) SET - Società di Engineering del Territorio Srl, (3) SAM – Società Apuana Marmi
- **Trip techniques recovery innovative printable - a new cycle of life in the stone industry.** Claudia Marciano Costantino Forte, Intermarmi Srl
- **Structure from Motion technique of proximal-sensing airborne data for 3D reconstruction of extraction sites.** Tufarolo Emanuele<sup>1</sup>, Salvini Riccardo<sup>1</sup>, Seddaiu Marcello<sup>2</sup>, Bernadinetti Stefano<sup>3</sup>, Petrolo Francesco<sup>2</sup>, Lanciano Chiara<sup>2</sup>, Luigi Carmignani<sup>1</sup>, Giovanni Massa<sup>4</sup>, Diego Pieruccioni<sup>2</sup> – (1) University of Siena, Department of Environment, Earth and Physical Sciences and Centre of Geotechnologies, (2) University of Siena, Centre of Geotechnologies CGT, (3) University of Cagliari, Department of Chemical and Geological Sciences and Centre of Geotechnologies CGT, (4) CGT Group
- **Three dimensional fractures detection by geo-radar for sustainable production of ornamental stones.** Mohamed Elkarmoty<sup>1</sup>, Stefano Bonduà<sup>1</sup>, Roberto Bruno<sup>1</sup>, Stefano Cangilioli<sup>2</sup> – (1) University of Bologna, Department of Civil, Chemical, Environmental, and Materials Engineering, (2) La Borghigiana Srl
- **Panoptes® a tool for non-destructive evaluation of grain size distribution in monomineralic rocks.** Pietro Armienti - University of Pisa, Department of Earth Science

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PARALLEL SESSION SOC - Planning and Socio-economic Sustainability - h. 14.00

Marmotec Conference Hall

Chair: Giampaolo Vitali - CNR IRCRES and GEI

- **Contractual Networks between enterprises: opportunities for growth and development for the companies of the stone industry**, Pietro Parodi - Assoreti PMI / Teamreti Italia
- **Non-financial reporting. Challenges and opportunities for the natural stone industry**. Matteo Pedrini - ALTIS, Università Cattolica del Sacro Cuore, Milano
- **The crisis of granite and the success of marble sector: errors and market strategies. The experience of Sardinia**. Nicola Careddu<sup>1</sup>, Giampaolo Siotto<sup>2</sup>, Graziella Marras<sup>1</sup> – (1) University of Cagliari - DICAAR, (2) Mediterranea Progetti e Finanza s.r.l.
- **Innovation in stone business networks**. Alessandra Graziani<sup>1</sup>, Giuliana Giovannelli<sup>2</sup>, 1 Architect - PhD, researcher, 2 Architect - PhD, researcher
- **NICHE – Natural Rock In The Use Of Cultural Heritage In Europe - An Initiative to Link European Stakeholder**. Wolfgang Reimer - Geokompetenzzentrum Freiberg e.V. (Germany)
- **European Culture Using Natural Stone**. Heinecke Werner - Fair Stone e.V. (Germany)
- **Dimension stones by train: 25 years for Valpolicella railway terminal**. Grazia Signori<sup>1</sup>, Carlo Proserpio<sup>2</sup>, Filiberto Semenzin<sup>3</sup>, 1Laboratorio Prove - Centro Servizi Marmo, 2 Laboratorio di Design e Sostenibilità - Dipartimento di Design - Politecnico di Milano, 3 Distretto del Marmo e della Pietra di Verona - Centro Servizi Marmo
- **New strategies and approaches for the environmental and economic sustainability in the metropolitan area of Bari**. Vincenzo Paolo Bagnato<sup>1</sup>, Giovanna Mangialardi<sup>2</sup>, Alessandro Reina<sup>1</sup> – (1) Polytechnic of Bari - Department of Sciences of Civil Engineering and Architecture, (2) University of Salento - Department of Engineering of Innovation
- **Redevelopment of the “street of the marble” in area of Brescia. Redevelopment of the urban centres in the close relationship which these weave, today is in the history, with mining areas of the street of marble**. Massimiliano Caviasca, Pierpaolo Frediani (Italy)
- **Planning the quarries landscape in Puglia**. Martinelli Nicola, Loi Maristella, Mariella Annese - Polytechnic of Bari
- **Ornamental stone in Apricena basin: giacimentology for planning**. Reina Alessandro, Maristella Loi - Polytechnic of Bari

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- **Preferred Scenarios and undesirable futures ahead in the light of Prof. Cipolla's Theory on Human Stupidity.** Paolo Santinello – Klink srl
- **Substantiation of wheel loader exploitation at dimension stone quarries in Ukraine.** Nina Karimbetova - Zhytomyr State Technological University (Ukraine)

PARALLEL SESSION DES - Sustainable Architecture and Ecodesign with natural stone - h. 14.00

STARTUP ARENA

Chair: Peter Becker – Stone-Ideas.com

- **From materials to behaviors: strategic design as a tool to lead to a disruptive sustainable innovation in architecture** Alessandro M. Pierandrei - Pierandrei Associati behavioral designers & architects
- **Stock, waste or resource?** Moreno Ratti - Moreno Ratti Design
- **MARWOOLUS Birth and progression of a material. The interior landscapes.** Marco Guazzini – Marco Guazzini design
- **Experiences and considerations on the reduction and reuse of stone waste while optimizing their thermal energy performance for the building sector.** Federica Rosso<sup>1</sup>, Marco Ferrero<sup>1</sup>, Anna Laura Pisello<sup>2</sup>, Franco Cotana<sup>2</sup> - (1) Sapienza University of Rome, (2) University of Perugia
- **Design in stone from natural stone to reconstructed stone. A didactic experience.** Enrica Leonardis, Department of Science of Civil Engineering and Architecture, Polytechnic of Bari (Italy)
- **Marble and sustainability: the wise use of waste to create unique items and exclusive design.** Carla Beccari, Carrara Design Factory (Italy)
- **GAPCYCLE : Upcycling the difference.** Anna Fabrizi<sup>1</sup>, Claudio Morelli<sup>2</sup>, (1) Designer, (2) Apuana Corporate
- **The Eco-friendly stones of the Apuo Versilian marble district in the context of the environmental certification: some examples in architecture and in the management of the geominerarie resources.** Paolo Camaiora, Sergio Mancini
- **LESS material/MORE intelligence.** Davide Crippa, Barbara Di Prete, Politecnico di Milano (Italy)
- **The heritage architectural and the resources materials of the territory: basic elements for an innovative industrial tourism.** Caterina Gattuso, Philomène Gattuso- University of Calabria - Dep. of Biology, Ecology and Earth Sciences- DiBEST

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For more information, please see:

<http://www.carraramarmotec.com/uk/sustainable-stone-conference/about-sustainable-stone-conference.asp>



### Contacts

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