

# STONECHANGE 2016



## FINAL PROGRAMME

**14<sup>th</sup> June 2016:** PERC Training Course and STONECHANGE 2016 arrival day (see logistic and info documents)

**15<sup>th</sup> June 2016:** PERC Training Course and STONECHANGE 2016 arrival day (see logistic and info documents)

- 09.00-09.30: **PERC TRAINING COURSE** - Registration and welcome coffee

- 09.30-17.30: **PERC TRAINING COURSE** on “ Mineral Standard Reporting” (see related doc.)

**16<sup>th</sup> June 2016 - STONECHANGE 2016 (day 1)**

- 08.45-09.30: **Registration**
- 09.30-10.00: **Opening Session - Official welcome speeches**
  - IMM President welcome
  - Euroroc e/o EFG e/o PERC
  - Comune di Carrara, Regione Toscana e Prov. Trento
  - ACP Representative (Mr. Emagna)
  - Programme presentation
  - UNDP
- 10.00-10.30: **Technical Opening Session – EU and local Regulators speeches & presentations**
  - EU Commission – Slavko Solar o (contatto D. Franks) : *Introduction of EU Initiatives and Supporting Programmes to Mining, sustainability, Environment and Heritage*
- 10.30-11.00: **Coffee Break**
- 11.00-12.30: **SESSION I - Institutional Programs and Initiatives to support the necessary sustainable development of the Quarrying industry – Chairman Daniel Franks (UNDP)**
  - *“The ACP-EU Minerals Development Programme - “Supporting the sustainable development of dimension stones, industrial minerals and construction materials in Africa, the Caribbean and the Pacific (UNDP and ACP Delegates) - 40’*
  - *The Sustaming Project (EU-Horizon 2020): towards optimization of Natural Stone extraction (MIRO, CTM, AITEMIN)-15’*

- *The necessary sustainable development of the Dimension Stone industry, a very unique and particular industry that is changing its old historical features (Marco Cosi- AlpiConsult Stones) - 15'.*
- 12.30-14.00: **SESSION II - International Reporting Standards in the Mining Industry. A new entry: the Natural Stone industry** - Chairman Mr. Steve Henley (PERC Board and Resource Computing International Ltd. for Mining )
  - *PERC-Pan European Resources-Reserves Reporting Committee, the first international mining standard to officially consider Dimension Stones (Neil Wells – PERC Deputy Chairman) - 10'*
  - *The Dimension Stone Industry in Asia regions and relation to AIM and Standard Reporting (Derek Chan – BMI Technical Consulting Ltd. – Hong Kong) - 15'*
  - *S.Tuboh (Sumatra- Indonesia) case study for marble standard reporting and resources-reserves estimation. Provisional quality and recovery rate evaluation: an help from generic graphic softwares, 3D geomodelling packages and from a dedicated tessellation software (Ermanno Roman – Tethys, Italy) - 15'*
  - *A parametric approach to the geological exploration of Dimension Stone deposits: the DS Suitability Index (Giuseppe Nirta – Furesi Livi Nirta Geological Bureau, Italy) - 15'*
  - *The detailed geological field analysis as key tool for the Resources-Reserves evaluation according to the JORC Code 2012 standard: case studies from China and Malaysia (Sergio Matteoli – Geofield s.r.l., Italy) - 15'*
- 14.00-15.00: **Lunch**
- 15.00-16.30: **SESSION II (continue) and SESSION III - Governance and Policy Making for a new Sustainable Natural Stone sector** - Chairman Mr. Prof. Eberhard Falck
  - *Modernizing the mining operations by a new sustainable approach in the evaluation of marble resources, with particular reference to Sivec marble quarry in Macedonia (Mice Trkaleski- Chief geologist of Mermerem Kombinat Co., Macedonia) - 15'*
  - *Advances in 3D geological modelling – Implications for the stone industry (James Dendle, James Haythornthwaite – SRK Consulting UK) - 15'*
  - *Mineral quarrying and processing in Carrara District: regulatory framework and production assessment (Antonino Criscuolo – Head of Quarry Dept. of Carrara Municipality) - 15'*
  - *The future of CE Marking in the Dimension Stone sector: contradictions and solutions (P. Primavori) - 15'*
- 16.30-17.00: **Coffee Break**
- 17.00-18.30: **SESSION IV – New modern technologies for a more sustainable Natural Stone industry. A key support to increase its sustainability and performance** – Chairman Francisco Javier Fernandez (Director of Centro Tecnológico del Marmol- Chegin , Spain)
  - *Datamine Solutions for Industrial Minerals and Construction Materials, including Dimension Stones (Ved Sharma – Director of Datamine Software Ltd. , UK) - 15'*
  - *Underground marble mining: a new model of chain saw that could help the improvement of this new mining method for a better selective mining and waste minimization in the marble quarrying (Giulio Milazzo – Benetti Macchine s.r.l., Italy) - 15'*

- *Optimization of Dimension Stone extraction from fractured rock mass: a computer method to assist DS quarry evaluation and production planning* (Steve Henley-Resources Computing International Ltd., UK) – 15'
- *RPAS aerial photogrammetric applied to survey of Quarries* (Daniele Moya – Geoworks S.r.L., Italy) - 15'
- *A new method to contribute to the wastage minimization in Dimension Stones quarrying: new technology to resin highly fractured stone blocks* (Prometec s.r.l., Italy) – 10'

## 17th June 2016 – STONECHANGE 2016 (day 2)

- 09.00-10.30: **SESSION V (in connection with Session IV, too) – Sustainability: Selective Mining, Waste Management, Environmental Impact Reduction, Ethical Conduct are the next future priorities for a new Sustainable DS Industry** - Chairman Markku Iljina (Board of European Federation of Geologists)
  - *Dimension Stones and Environmental Sustainability through waste recovery: how should we pay attention to the “costs” of the process. A case history.* (Grazia Signori – Stone Test Laboratory “Marmoteca” Verona, Italy) - 10'
  - *Quarry Design for a more sustainable quarrying sector: considerations for dimension stones* (Ruth Allington – GWP LLP., UK) - 15'
  - *New ways to use the territory developing modern sustainable mining projects. First project in the world for the natural underground “hypogeous cooling storage” under controlled environment – Rio Maggiore limestone mine* (Eng. Fabrizio Conforti – Tassullo S.p.A, Italy) - 15'
  - *Recycling of Natural Stones slurries: an analysis through the environmental and economic indicators* (Cristina Rabozzi – Environmental Consultant, Italy) - 15'
  - *Building durable relationships between quarries and commodities – Social licensing in the Natural Stone industry* (Prof. Eberhard Falck - Germany) - 15'
- 10.30-11.00: **Coffee Break**
- 11.00-12.30: **SESSION V (continue ) and Session VI – Attractive Materials and Historical DS Districts: an Opportunity of Investment and Development** Chairman Mr. Mark Howson- Mineral Resources Professional Ltd.- UK / PERC Board
  - *People, planet, profit; maintaining ethical sourcing principles in a profit driven context* (Simon Goude - Ethical Stone Company Ltd.- UK) - 15' - SESSION V
  - *Botticino: from "Marble" to Commodity Impact, Perspective and Innovation with the rapid change of the Global Market* (Giuliano Ghirardi – MARMI Ghirardi s.r.l./Associated Confindustria Marmo, Brescia- Italy) - 15'
  - *Terrestrial Laser Scanning for underground marble quarry planning: comparison of multi-temporal 3D point clouds* (Prof. Matilde Oliveti - Univ. of Siena, Italy) - 15'
  - *The contribution of structural-geological investigations to evaluate marble deposit geometries and mechanical properties: the example for the Apuan Metamorphic Complex that include the world famous Carrara marbles* (Prof. Paolo Conti, - Centre of Geotechnologies, Univ. of Siena, Italy ) - 15'
  - *Mines & mineral resources in Khyber Pakhtunkhw Govt.(Pakistan): investment opportunities and business potential with particular regards to Industrial Minerals and Construction Materials* (MMIDA Association – KP Govt., Pakistan) and

*Other Stone quarrying Investment opportunities in EU and worldwide: an overview on key dimension stone quarry projects, operating and “grass roots”. (Various printed document distributed to participants.)*

- 12.30-13.00: **Q & A and Closure Ceremony**
- 13.00-14.15: **Snack Lunch**
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- 14.15-17.45: **FIELD TRIP to Carrara Marble Quarries**