

# Natural Stones and Cultural Heritage promotion and preservation

II International Workshop on Heritage Stones - 5th-7th / 10 / 2021, Torino, Italy



Politecnico  
di Torino



UNIVERSITÀ  
DEGLI STUDI  
DI TORINO



ASSOCIAZIONE NAZIONALE  
INGEGNERI MINERARI  
NUMEROSE SCELTE DI SERVIZIO IN TUTTE LE  
CATEGORIE E SETTORI



IUGS  
International Geosciences  
and Heritage Stones



United Nations  
Educational, Scientific and  
Cultural Organization



International  
Geoscience  
Programme

Tuesday 05/10/2021

8.30 - 9.30

9.30 - 10.00

POLITO Castello del Valentino - Salone d'Onore

Registration

Welcome Speech

10.00 - 10.40

Keynote: Lorenzo Lazzarini - Laboratorio di Analisi dei Materiali Antichi - Università IUAV Venezia

**THE RED IMPERIAL PORPHYRY: the history of use, quarries and petrology of the most important and ubiquitous stone of antiquity**

10.40 - 11:00

Coffee break

11:00-13:00

**SESSION Heritage stones from Europe: case studies**

11:00

R. Bellopede\*, [A. Merico](#), L. Zichella, A. Fiorucci, P. Marini

ITRIA VALLEY (Apulia, Italy): TECHNOLOGICAL PROPERTIES OF A LIMESTONE USED FOR TRADITIONAL BUILDINGS

11:20

T. Donigaglia, R. Cossio, R. Compagnoni, A.L. Ciuffreda, [M. Coli](#)

THE VERDE PRATO: AN HISTORICAL ORNAMENTAL STONE OF TUSCANY

11:40

L. Caulfield, P. N. [Wyse Jackson](#)

HERITAGE STONES FROM EUROPE: IRISH BLACK MARBLE  
MINERO-PETROGRAPHIC CHARACTERIZATION OF STONE MATERIALS USED FOR THE ROMAN AMPHITHEATER OF EPOREDIA (IVREA, TO): A SCIENTIFIC-DISSEMINATION PROPOSAL IN THE CULTURAL HERITAGE

12:00

[Elena Storta](#), Alessandro Borghi, Luigi Perotti, Mauro Palomba, Angela Deodato

THERMOMECHANICAL PROPERTIES OF DETRITAL LIMESTONE FROM THE NOWE BRUSNO TOWN (POLAND) USED IN ARCHITECTURE. PAST AND FUTURE

12:20

A. Bobrowska, [E. Jagoda](#), A. Domanik, G. Rzyżyński

SERPENTINITE AND OPHICALCITE IN THE ARCHITECTURE OF EASTERN LIGURIA AND AS DECORATION OF TUSCAN RELIGIOUS BUILDINGS.

12:40

[Fabio Fratini](#), Silvia Rescic, Daniela Pittaluga

PROPOSAL FOR THE DESIGNATION PIETRA DI VICENZA (lower Oligocene, northern Italy) AS GLOBAL HERITAGE STONE RESOURCES

13:00

N. Preto, M. Brandano, P. Cornale, C. Mazzoli, E. Milizia, L. Tomassetti

13:20 - 14:00

Light lunch

14:00-16:00

**SESSION Historical Quarries: uses, protection , regulatory limits, resources**

14:00

Tom Heldal

NON-ECONOMIC VALUE ASSESSMENT OF NATURAL STONE: EXAMPLE FROM NORWAY

14:20

[David M. Freire-Lista](#), Luis Sousaa, Martinho Lourençoa, Becerra Becerra J.

GRANITE OF PENA, VILA REAL: A HERITAGE STONE OF NORTHERN PORTUGAL

14:40

Á. Török

HISTORIC QUARRIES AND STONE RESOURCES – CONTROL FACTORS OF THE URBANIZATION OF A CITY, A TWO MILLENNIA HISTORY OF STONE USE IN BUDAPEST.

15:00

[Rafael Navarro](#), Javier Martínez-Martínez, Jorge Fernández-Suárez, Enrique Álvarez-Areces

ANALYSIS OF THE CURRENT UNEQUAL SITUATION OF THE BUILDING STONES AND HISTORICAL QUARRIES ASSOCIATED WITH THE UNESCO WORLD HERITAGE SITES OF SPAIN

15:20

[Valentina Cetean](#), Radu Fărnoagă, Emil Rusu, Antonio Ulmeanu, Ioan Scutelnicu, Filipciuc Constantina, Adrian Tătaru

RESEARCH TO DETERMINE THE LIMESTONE EXPLOITATION GEOMETRY IN THE DACIAN HISTORICAL QUARRY FROM MAGURA CALANULUI

15:40

Heiner Siedel

DISTRIBUTION OF HERITAGE STONES AND TRANSPORT: THE EXAMPLE OF ELBE SANDSTONE FROM SAXONY (GERMANY)

16:00

Massimo Coli

THE TURIN MINING PAPYRUS AND THE WADI HAMMAMAT NATURAL RESOURCES EXPLOITATION

16:15-16:30 **Coffee break**  
 16.30 - 19:00 **TourinStones (geoturistic field trip in Turin)**  
 19.00 **Networking aperitif-dinner**

**Wednesday 06/10/2021**

10.00 - 13.00 **Egyptian Museum visit**  
 13:00 - 14:00 **Light lunch (free)**

**POLITO Castello del Valentino - Salone d'Onore**

14.00 - 14.30: **Keynote: Gurmeet Kaur - Department of geology, Panjab University, Chandigarh, India** **International Commission on Geoheritage and its Subcommission with special reference to Subcommission on Heritage Stones**

**14.30 - 16.30 SESSION Heritage stones worldwide**

14:30	Sharma and Cooper	NATURAL STONES IN HERITAGE CITIES IN INDIA.
14:50	<u>Mateja Golež</u> , Alenka Vidrgar, Franci Krevh, Matevž Bajde, Mihael Ramšak	THE SOUND OF STONE
15:10	<u>G. Sorrentino</u> , A. Lo Giudice, A. Re, L. Vigorelli, A. Borghi, L. Longo	THE (PRE)HISTORY CARVED IN STONES
15:30	<u>M. H. B. O Frascá</u> , N. F. Castro	BLUE SODALITE SYENITE OF BAHIA, BRAZIL, AN EXCLUSIVE ROCK TYPE
15:50	<u>Nuria F. Castro</u> , Amanda Mozer, André Campos. R. P., Carla Félix, Kátia Leite Mansur, Rosana Elisa Coppedè Silva, Roberto Carlos C. C. Ribeiro	LEPTINITO GNEISS: THE HERITAGE STONE OF THE OLD TOWN, RIO DE JANEIRO, BRAZIL
16:10	<u>J. Becerra</u> , D. Freire, JP González	WEATHERING FORMS AND PETROPHYSICAL FEATURES OF PIEDRA BOGOTANA

16.30 - 17.00 **Coffee break**

17.00 - 17.30 **Poster session**

Piero Primavori	ROSSO VERONA MARBLE (ITALY): PROPOSED AS A CANDIDATE FOR "GLOBAL HERITAGE STONE RESOURCE".
Armando Quintas; Carlos Filipe	THE STUDY OF THE HERITAGE AND HISTORY OF THE MARBLE INDUSTRY: THE CASE OF ALENTEJO (PORTUGAL)
N. Careddu, S. Cuccuru, S.M. Grillo	SARDINIAN GRANITOIDS: 4000 YEARS OF GEOHERITAGE AND DIMENSION STONES.
Tuomas Sihvonen, Elena Panova, Maaret Paakkunainen, Mika Räisänen, Nike Luodes, Paavo Härmä, Satu-Pia Reinikainen	STUDY FOR SUPPORTING RESTORATION ACTIVITIES OF (Pyterlite) RAPAKIVI GRANITE IN ST. PITERSBURG
F. Gambino*, L. Barale, A. Borghi, A. Cavallo, A. d'Atri, G. A. Dino, M. Giardino, L. Perotti, F. Piana	GEODATABASE OF PIEMONTE HERITAGE STONES QUARRY DISTRICTS
P. Härmä, O. Selonen	RED RAPAKIVI GRANITE (Pyterlite) FROM SOUTHEASTERN FINLAND - A FAMOUS NATURAL STONE OF VIROLAHTI
U. Storti, A. d'Atri, L. Martire	PIETRA DI VICO: GEOLOGY, PETROGRAPHY AND USE AS A HERITAGE STONE.
A. Aquino, S. Pagnotta, M. Lezzerini	EFFECTS OF THERMAL AGEING ON CALCARENITE FORM LIVORNO COAST (WESTERN TUSCANY).
E. Panova, D. Vlasov, M. Zelenskaya, A. Vlasov, O. Rodina	BIOLOGICAL WEATHERING OF GRANITE HERITAGE IN CITY ENVIRONMENT
G. Signori, M. Resmini, M. Pesenti	A STONE DIORAMA IN THE CENTRE OF BERGAMO
G. Signori	A HERITAGE STONE: THE CASE STUDY OF THE CEPPINO DI GRÉ (ITALY)
A. Ehling	GLOBAL HERITAGE STONES – HOW TO MAKE STONES VISIBLE
Á. Török, K. Fehér	STONE PROPERTIES AND DURABILITY OF A ROMAN SETTLEMENT ALONG AMBER ROAD (HUNGARY).

17.30 - 18:00

**Conclusions**

**Thursday 07/10/2021**  
 ore 9.30 -18:00

from POLITO Castello del Valentino  
**Visit of Sacra di San Michele, Arch of Augustus in Susa and quarry**  
 Bus - lunch in typical osteria

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