

Monday 08th September 2025: Climate change and risk assessment

11.30 - 12.30	Registration
12.30 - 12.40	Welcome Gaïa Jungeblodt <i>Director, ICOMOS International Secretariat</i>
12.40 – 12.50	Isabelle Pallot-Frossard , <i>Director Fondation des sciences du Patrimoine</i>
12.50 -13.00	Introduction
13.00 - 13.30	Alessandra Bonazza
13.30 - 13.50	ASSESSING THE RISK OF CLIMATE CHANGE ON COMMONWEALTH WAR GRAVES: A GLOBAL ASSESSMENT OF FUTURE STONE RECESSION RATES Helen Thomas, Miriam Andrews, Josep Grau-Bové, Valentina Marincioni, Scott Allan Orr
13.50 - 14.10	MORPHOMETRIC ANALYSIS OF CLIMATE-INDUCED DECAY IN STONE HERITAGE: THE M3DEA APPROACH Chiara Coletti, Anna Arizzi , Giuseppe Cultrone, Claudio Mazzoli
14.10 - 14.30	THE BRUSSELS PALACE OF JUSTICE: JUDGING THE FUTURE IMPACT OF FROST DAMAGE VERSUS THE ENVIRONMENTAL IMPACT OF RESTORATION Roald Hayen, Julie Desarnaud, Laurent Fontaine
14.30 -14.50	EXPLORING BIOCLIM VARIABLES TO UNDERSTAND THE VULNERABILITIES CAUSED BY MOISTURE ON RUINED SITES UNDER THE CARE OF ENGLISH HERITAGE Vrinda Jariwala, Heather Viles, Jenny Richards
14.50 -15.10	CLIMATE CHANGE IMPACT ON UNDERWATER CULTURAL HERITAGE AND HISTORICAL STONE MATERIALS Luigi Germinario , Isabella Moro , Stuart McLelland , Marco Munari,, David Benavente , Fabio Crocetta , Patrizia Tomasin, Franca Cibecchini , Stella Demesticha , Enrico Gallocchio , Judith Gatt , Emanuela Moschin , Francesco Terlizzi , Claudio Mazzoli
15.10 -15.30	COLISEUM PROJECT: CORRELATING CLIMATE CHANGE DATA WITH THE BEHAVIOR OF HERITAGE MATERIALS Adèle Cormier, Fabrice Surma, Jean-Marc Vallet, Odile Guillon, Martin Labouré, Ann Bourgès Nistor Grozavu
15.30 -16.00	Pause / Poster session
16.00 - 16.30	Ann Bourgès
16.30 - 16.50	UNDERSTANDING THERMAL BEHAVIOR IN TRADITIONAL MASONRY: A STUDY OF RED PORPHYRY WALL Lara Briz, Marco Larcher, Daniel Herrera
16.50 - 17.10	THE IMPACT OF MEASURED MATERIAL PROPERTIES ON HYGROTHERMAL SIMULATION OUTCOMES: A CASE STUDY OF IRISH SANDSTONES Anna Hofheinz , Rosanne Walker , Caroline Engel Purcell , Oliver Kinnane

17.10 - 17.30	UNDERSTANDING THE VARIABILITY OF BELGIAN BRICKS: A COMBINED STATISTICAL AND HYGROTHERMAL STUDY Vanderschelden B, Hayen R, Cnudde V. , De Kock T, Van Den Bossche N.
17.30 - 17.50	HYGROTHERMAL PROPERTIES OF HISTORIC BRICKS: AN INTERNATIONAL CHARACTERISATION, CORRELATION AND CLUSTERING ANALYSIS Evy Vereecken, Staf Roels, Roald Hayen, Bingyu Xu, Rosanne Walker, David Artigas, Jianhua Zhao, Caroline Engel Purcell, Anna Hofheinz, Valentina Marincioni, Lara Briz Bejerano, Marc Stappers
17.50- 18.10	HIGH TEMPERATURE BEHAVIOUR OF MASONRY WALLETS COMPOSED OF DIFFERENT LIME MORTARS AND TYPES OF LIMESTONES Ayoub DAOUDI, Victor Tadie,Javad Eslami, Anne-Lise Beaucour, Carla Pani,Albert Noumowé
18.10 - 19.00	Poster session
19.00 – 21.00	Drinks

Tuesday 9th of September : Characterization and Investigation Methods

09.00 - 9.30	Ákos Török
09.30 - 09.50	PHYSICAL CHARACTERISTICS OF SANDSTONE TYPES EXTRACTED FROM HISTORIC BUILDINGS Miloš Drdácý, Marek Eisler, Jaroslav Valach
09.50 - 10.10	DECAY ASSESSMENT OF HISTORICAL STONE-BUILT ARCHWAY (PAIFANG) IN SHEXIAN, CHINA Yinghong Wang, Hu Zhou, Guofeng Wei
10.10 - 10.30	SIMPLIFYING THE ASSESSMENT OF COMPLEX STONES: A SPECIALISED GLOSSARY FOR REIGATE STONE, TESTED AT THE TOWER OF LONDON Martin Michette , Kenta Sayama , Heather Viles , Constantina Vlachou
10.30 - 11.00	Pause / Poster session
11.00 - 11.20	CLOSE RANGE PHOTOGRAMMETRY TO OBSERVE MORPHOLOGICAL CHANGE IN ROCK SURFACES Andrew Thorn
11.20 - 11.40	SALT MIXTURE MYSTERIES: STRATEGIES FOR CONSERVATION Sebastiaan Godts, Scott Allan Orr, Amelie Stahlbuhk, Julie Desarnaud, Hilde De Clercq, Tim De Kock, Veerle Cnudde, Michael Steiger
11.40 - 12.00	SALT CRYSTALLIZATION CHARACTERIZATION WITHIN POROUS NETWORK OF SAVONNIERES LIMESTONE COMBINING RAMAN AND AFM Clément Mathieu, Jérôme Wassermann, Sébastien Péralta, Ronan L. Hébert, Pierre M. Adler, Jean-Louis Gallias, and Philippe Bromblet
12.00 - 12.20	PREDICTING SALT DAMAGE ON STONE OBJECTS AND CONTROLLING SUSTAINABLY David Thickett , Antanas Melinis
12.20 - 12.40	ACCELERATED WEATHERING PROCEDURE FOR ASSESSING THE RESISTANCE OF PLASTERS AND RENDERS AGAINST SALT DECAY Barbara Lubelli, Davide Gulotta
12.40 - 13.00	UNVEILING SALT TRANSPORT AND DAMAGE IN POROUS ROCK AT THE PORE-SCALE TROUGH 4D X-RAY IMAGING AND DEEP LEARNING ANALYSIS Syrine Ben Elhadj Hamida, Peter Moonen, Hannelore Derluyn
13.00 - 14.00	Lunch / Poster session
14.00 - 14.20	ULTRASONIC PULSE VELOCITY TO ASSESS STONE CONDITIONS: PROPOSAL FOR A GUIDELINE FOR CONSERVATORS USING NOVEL CONICAL PROBES M. Di Tommaso, A. Della Pergola, F. Piqué

14.20 - 14.40	THERMO-HYGRIC WEATHERING OF CARRARA MARBLE NON-DESTRUCTIVELY MONITORED WITH NONLINEAR RESONANT ULTRASOUND SPECTROSCOPY (NRUS) M.L. Chavazas, J. Berthonneau, C. Payan, P. Bromblet
14.40 - 15.00	SPECTROSCOPIC AND THERMOGRAPHIC CHARACTERIZATIONS OF SEDIMENTARY STONE SUBMITTED TO CHEMICAL ATTACKS Omikrine-Metalssi O, Chabas A, Ibos L. Janvier-Badosa S, Gharakhanibahar T, Hupont S, Marchetti M, Mechling J.-M
15.00 -15.20	ANALYZING MOISTURE RETENTION IN A NATURAL STONE VIA HYPERSPECTRAL IMAGING SUPPORTED BY PETROGRAPHIC OBSERVATIONS FOR MICROSTRUCTURAL INSIGHT Danish Ali Chaghdo, Bikram Koirala, Laurent Fontaine, Laura Cristina , Roald Hayen , Tim De Kock , Paul Scheunders
15.20 -15.40	NEW INSIGHTS INTO SPALLING THROUGH DIGITAL IMAGE CORRELATION ON TUFFEAU Mohamad DAHER, Xavier BRUNETAUD, Kévin BECK
15.40 -16.00	PETROPHYSICAL AND PETROGRAPHIC INSIGHTS INTO LIMESTONE DETERIORATION IN THE CODZ POP FROM KABAH AND THE GREAT PALACE OF SAYIL, YUCATAN, MEXICO Osmara Arleth Coronado Coronado , Rubén A. López Doncel , Natalia Hernández Tangarife
16.00 -16.30	Pause / Poster session
16.30 - 16.50	CONTACT ANGLE MEASUREMENTS TO INVESTIGATE SUBAERIAL BIOFILMS/POROUS SUBSTRATES SYSTEMS IN BUILT HERITAGE RESEARCH Letizia Berti, Davide Gulotta , Gabriele Gianini, Francesca Cappitelli, Federica Villa, Lucia Toniolo, Sara Goidanich
16.50 - 17.10	SHARING STONE BIORECEPTIVITY DATA; USING A STANDARD METHOD TO CREATE A GLOBAL DATABASE Philip J.A. Skipper , Lynda K. Skipper
17.10 - 17.30	ANALYZING FIRE DAMAGE TO RAPA NUI MOAI: PRELIMINARY IN-SITU FINDINGS Jorge Otero , Raquel Delgado-De-Los-Mozos , Daniela Meza-Marchant, Fernando Carrera-Ramírez
17.30 - 17.50	STONE-MORTAR INTERFACIAL PROPERTIES CHARACTERISATION Victor Tadie, Eleni Tsangouri, Javad Eslami, Anne-Lise Beaucour, Albert Noumowé
17.50- 18.10	NON-DESTRUCTIVE TECHNIQUES FOR DIAGNOSIS OF THE SURFACE BUILDING MATERIALS OF OTTOMAN MONUMENTS IN SKOPJE Emel Sherif Miftar
18.10-19.00	Poster session
20	diner

Wednesday 10th of September : Digitalization and AI in stone conservation

09.00 - 9.50	Livio de Luca – Valérie Gouet-Brunet
09.50 - 10.10	DECAY DOCUMENTATION OF A STONE RELIEF USING GIGAPIXEL PHOTOGRAMMETRY: THE CONFEDERATE MEMORIAL CARVING AT STONE MOUNTAIN, USA Kristen Jones, Adam Spring, George Bevan, Kaelin Groom, Casey Allen
10.10 -10.30	AI'S CONTRIBUTION TO AUTOMATIC DATA DETECTION AND SEGMENTATION ON MASONRY PHOTOGRAPHS Stuardo Lucho, Sylvie Treuillet, Xavier Desquesnes, Remy Leconge, Xavier Brunetaud
10.30 - 11.00	Pause/ Poster session
11.00 -11.20	IMAGE SEGMENTATION FOR MASONRY WALL ANALYSIS: A COMPARATIVE STUDY OF TRADITIONAL, DEEP LEARNING, AND MULTIMODAL METHODS IN PRACTICAL APPLICATIONS Louis Vandenabeele, Samuel Dubois, Marius Pfister
11.20 - 11.40	STONE MATERIALS' DETERIORATION: THE ROLE OF HBIM AND AI Rita Vecchiattini ,Margherita Valentini
11.40 - 12.00	MACHINE LEARNING-BASED DETECTION OF STONE DEGRADATION USING LIDAR AND HBIM INTEGRATION FOR BUILT HERITAGE Helena Laasch, Yamini Patankar, Camilla Tennenini, Robert J. Flatt, Andreas Wieser
12.00 - 12.20	A GRAPH NEURAL NETWORK FOR WEATHERING DETECTION IN STONE HERITAGE USING ULTRASONIC TESTING Yuan Cheng , Jizhong Huang , Ruoyu Zhang , Yue Zhang
12.20 - 12.40	USING CFD TO UNDERSTAND WATER RUNOFF BEHAVIOUR: THE SPH METHOD APPLIED TO VARIED 3D STONE SURFACE GEOMETRIES Adam Frost, Lyn Wilson , Scott Allan Orr, Josep Grau-Bove
12.40 - 14.00	Lunch/ Poster session
14.00 - 14.20	CONSERVATION AND RESTORATION OF THE BUST "DONNA VELATA" BY CESARE LAPINI: CUSTOMIZED SOLUTION FOR THE FRACTURED ALABASTER BASE BY APPLYING 3D TECHNOLOGY Karoline Reck, Peter Kozub, Niklas Underwood
14.20 - 14.40	AI-DRIVEN ACOUSTIC MONITORING OF LASER CLEANING INTERVENTIONS ON STONework Nikolas Raikidis, Georgios D. Barmparis Kristalia Melessanaki, George J. Tserevelakis, Paraskevi Pouli
14.40 - 15.00	IMMERSIVE CONSERVATION: INTERACTIVE TOOLS FOR PRESERVING STONE BUILT HERITAGE Yamini Patankar, Daniela Mitterberger, Brahimsamba Bomou, Robert J. Flatt

15.00 – 15.20

NOTRE DAME DE PARIS RESTAURATION

Véronique Vergès Belmin

16.00 -18.00

Visit

**Thursday 11th of September : (morning) Resilient & Sustainable conservation,
(afternoon) Holistic approach of built heritage conservation**

09.00 - 09.30	Heather Viles
09.30 - 09.50	IMPLICATIONS OF CLIMBING PLANTS FOR BUILT HERITAGE: HOW DOES GREENING AFFECT THE COMMON DEGRADATION PROCESSES? Marie De Groeve, Eda Kale, Scott Allan Orr, Tim De Kock
09.50 - 10.10	FUTURE EFFICACY OF SOFT CAPPING AS A NATURE-BASED SOLUTION FOR SLOWING THE WEATHERING OF RUINS Jenny Richards , Martin Coombes , Heather Viles
10.10 - 10.30	THE POTENTIAL USE OF MODIFIED NATURAL CEMENT AS A BONDING ADHESIVE FOR SANDSTONE HERITAGE CONSERVATION Blanka Veselá , Jakub Ďoubal, Renata Tišlová , Karol Bayer
10.30 - 10.50	TECHNICAL FEASIBILITY OF LIME WASH AND LIME SLURRY FOR THE CONSERVATION OF FRAGILE MASONRY IN CHINA Dai Shibing, WU Yang, Tanja Dettmering, WANG Heyu, Chao Puicheng
10.50 - 11.20	Pause / Poster session
11.20 - 11.40	EXPLORING THE INFLUENCE OF PARACOCCUS DENITRIFICANS IN MITIGATING WEATHERING EFFECTS ON STONE CONSERVATION Selen Ezgi Celik, Cedrik Born, Jafar Qajar, Selen Ezgi Celik, Alejandra Reyes-Amezaga, Laurenz Shröer, Veerle Cnudde
11.40 - 12.00	EXPLORING THE VIABILITY OF OPUNTIA FICUS INDICA (OFI) MUCILAGE AS A CONSOLIDANT FOR REIGATE STONE Fiorella Lavado Chiarella , Dr. Marina Sokhan
12.00 - 12.20	PRODUCTION OF HISTORICAL, NEW AND REUSED FIRED CLAY BRICKS, AND ITS INFLUENCE ON PROPERTIES Inge Rörig-Dalgaard
12.20 -12.40	THE ATTEMPT OF PASSIVE ENVIRONMENTAL CONTROL AIMED AT SUPPRESSING CONDENSATION IN THE TEMPLE BUILT WITHIN THE ROCK CAVE Etsuko Mizutani , Daisuke Ogura
12.40 - 14.30	Lunch / Poster session Public Annual seminar of ISCS - ICOMOS THE ASSESSMENT OF CONSOLIDANT PRODUCTS IN STONE CONSERVATION. WHAT IS THE POINT IN VIEW OF A REFERENCE STANDARD? Alessandra Esposito, Vasco Fassina, Marco Gargano, Rachele Manganelli Del Fà, Silvia Rescic, Barbara Sacchi, Emilia Vasanelli, Antonio Sansonetti

14.30 - 15.00	Nevenka Novakovic
15.00-15.20	A STONE SURVEY OF PROPERTIES IN CARE OF HISTORIC ENVIRONMENT SCOTLAND: METHODOLOGY AND BENEFITS Aurelie Turmel, Sarah L Hamilton , Paul Everett, Ken Lawrie, Noemi Giovelli , Ewan Sheach, Luis Albornoz-Parra, Callum Graham
15.20-15.40	WEATHERING MECHANISMS IN THE LIMESTONE OF THE NORTH TEMPLE OF THE ARCHAEOLOGICAL SITE OF CHICHÉN ITZÁ, YUCATÁN Mayela Alejandra López-Torres, Claudia Araceli García-Solís , Rubén Alfonso López-Doncel , Claudia Angélica Ocampo-Flores
15.40-16.00	STUDY ON THE CONSERVATION MEASURES FOR THE STONE CIRCLES OF THE WASHINOKI ARCHAEOLOGICAL SITE IN HOKKAIDO, JAPAN Takeshi Ishizaki
16.00 - 16.30	Pause/ Poster session
16.30 - 16.50	UPSIDE DOWN! WEATHERING AND CONSERVATION - WHY MANY THINGS IN PETRA ARE DIFFERENT THAN EXPECTED W. Wedekind , H. Fischer and Y. Rieffel
16.50 - 17.10	CONSERVATION AND MAINTENANCE OF THE ARCHAEOLOGICAL SITE OF SAINT-ROMAIN-EN-GAL: AN INTERDISCIPLINARY APPROACH Ciucci, Pirillo, Goulois, Basti, Brigaud
17.10 - 17.30	MASONRY DETERIORATION PROBLEMS of the BEYAZIT MANUSCRIPT LIBRARY Hülya Dışkaya , Özge Boso Hanyalı , Sedat Kurugöl
17.30 - 17.50	EVALUATION OF CHANGES IN CONSERVATION ENVIRONMENT AND STABILITY FOR TOMB NO. 5 AT GONGJU ROYAL TOMB COMPLEX FROM THE 6TH CENTURY IN KOREA Il Kyu Choi, Chan Hee Lee
17.50 - 18.10	THE ROAD OF DECORATIVE STONES: THE JOURNEYS BETWEEN INSPIRATION, INSTALLATION AND USE Jan van 't Hof
18.10 – 20.00	Poster session
18.30 - 20.00	PSC meeting presentation

Friday 12th of September : Alteration mechanisms and conservation treatments

09.00 - 9.30	Elisa Franzoni
09.30 - 9.50	DAMAGE FROM MOISTURE CYCLING IN CLAY-BEARING SANDSTONES: MECHANISM AND MITIGATION WITH SWELLING INHIBITORS Timothy Wangler
09.50 - 10.10	MINIMIZING FREEZE–THAW DAMAGE TO GARDEN STONES IN WINTER USING DIFFERENT CURING METHODS Sayuri FUJII , Soichiro WAKIYA , Akinobu YANAGIDA , Wakana FUJITA
10.10 - 10.30	EXPERIMENTAL STUDY ON WEATHERING MECHANISM OF SANDSTONE GROTTOES UNDER MULTI-FIELD COUPLING CONDITIONS GUO Qinglin , PEI Qiangqiang , WANG Yanwu ,LIU Xiaoying, ZHANBo , SHANG Dongjuan
10.30 - 11.00	Pause / Poster session
11.00 - 11.20	CONSOLIDATION OF STONE ARTWORKS INDUCED BY SOL-GEL TRANSITION Romane Le Dizès, Sara Jabbari Farouji, Leo Pel, Noushine Shahidzadeh
11.20 - 11.40	TESTING THE EFFICIENCY OF ONE- AND TWO- PHASES CONSOLIDATION SYSTEMS FOR THE STABILIZATION OF A CALCARENITE STONE A. Grossi, S. Volta, M. Di Tommaso, F. Piqué
11.40 - 12.00	CONSOLIDATION (DAP) INTERVENTION ON THE COLUMNS OF THE HIGH SCHOOL ALESSANDRO VOLTA IN COMO Massimo Ferrari Trecate , Mirella Baldan
12.00 - 12.20	RECENT ADVANCES ON THE USE OF PHOSPHATE TREATMENTS TO PROVIDE HERITAGE STONES WITH ANTI-FOULING ABILITY Enrico Sassoni, Chiara Artusi, Elena Bernardi, Elisa Boanini, Martina Cappelletti, Cristina Chiavari, Matteo Cianciavicchia, Luca Cocchi, Elena Cofini, Alessandro Dal Pozzo, Stefano Fedi, Daniele Ghezzi, Alessio Gabrielli, Gabriela Graziani, Simona Ortelli, Ilaria Zanoni
12.20 - 12.40	EVALUATION OF HYDROXYAPATITE PROTECTION AND BIOMINERALIZATION TREATMENTS ON CARRARA MARBLES – IN SITU EVALUATION ON BUSTS OF THE PARC DE VERSAILLES Jeanne Maucourt , Ann Bourgès, Jérémy Hénin, Alexandra Gérard, Azzura Palazzo
12.40 - 13.00	GYP SUM AND EARTH THE CONSOLIDATION OF THE BUILDING MATERIALS AT AL-FAW ARCHEOLOGICAL SITE IN SAUDI ARABIA F. Piqué, S. Volta, S. Antonietti, S. Mariani, R. T. Sijeeni, M. Caroselli
13.00 - 14.00	Lunch/ Poster session

14.00 - 14.20	4D IMAGING AND QUANTIFICATIONS OF DRYING SATURATED SALTBEARING BUILDING STONES: EFFECTS OF CONCENTRATIONS OF SALTS AND MICROORGANISMS Jafar Qajar, Selen Ezgi Celik, Alejandra Reyes Amezaga, Laurenz Schröer and Veerle Cnudde
14.20 - 14.40	SALT AND HERITAGE: PREDICTION AND REMEDIATION OF SALT-INDUCED DAMAGE TO CULTURAL HERITAGE Fatima-Zohra Sahraoui, Lucas Goehring, Haida Liang, Ran Holtzman, Mykyta Chubynsky , David Thickett
14.40 - 15.00	A CURE FOR THE SALT CONTAMINATED ALTARPIECE OF REINHOUD III VAN BREDERODE IN 'DE GROTE KERK' OF VIANEN (NETHERLANDS) Sam Huysmans, Judy De Roy, Sebastiaan Godts, Laurent Fontaine
15.00 - 15.20	SOLUBLE SALTS IN STONE ARTIFACTS: RELIABLE QUANTIFICATION AND INFLUENCE ON CONSOLIDATION Alessio Gabrielli, Giulia Masi, Olivier Rolland , Enrico Sassoni
15.20 - 15.40	ELECTROMAGNETIC-BASED METHOD FOR THE TREATMENT OF RISING DAMP J. Desarnaud, Y. Vanhellemeont, S. Dubois M.de. Bouw
15.40 - 16.00	ASSESSING THE SELF-CLEANING BEHAVIOR OF INORGANIC TREATMENTS FOR STONE Linda Sermasi , Alberto Fregni), Elisa Franzoni
16.00 -16.30	Pause / Poster session
16.30 -16.50	CONDITION ASSESSMENT OF THE METAL ELEMENTS AND AN INNOVATIVE APPROACH TO CORROSION PROTECTION IN INACCESSIBLE AREAS IN THE FIELD OF MONUMENT PRESERVATION T. Lorenz, J. Meinhardt, C. Grimm-Remus, E. Wendler and M. Bosoldni
16.50 -17.10	PASSIVE FIRE PROTECTION OF THE VAULTS OF MONTPELLIER SAINT PIERRE CATHEDRALE? J. Lhomme , C. Lorentz , S. Logel , Y. Mélinge
17.10 - 17.20	Conclusion