

SWBSS 2017 Programme

Tuesday 19 September 2017

starting 19h00 | Come together at Café Heider (self-pay)
Address: Friedrich-Ebert-Str. 29, D-14467 Potsdam (in the city center of Potsdam, close to many hotels)

Wednesday 20 September 2017

8h15 | Registration
9h00 | Welcome
Steffen Laue - UoAS Potsdam
Eckehard Binas - President of the UoAS Potsdam
Paul Bellendorf - The Deutsche Bundesstiftung Umwelt DBU
(German Federal Environmental Foundation)

Salt sources, transport and crystallization

Session chair: Robert Flatt

09h30	Traffic-induced salt deposition on facades <i>M. Auras (Mainz, Germany)</i>
09h50	Wick action in cultural heritage <i>L. Pel & R. Pishkari (Eindhoven, The Netherlands)</i>
10h10	A preliminary study on dynamic measurement of salt crystallization and deliquescence on a porous material surface using optical microscope <i>M. Abuku, D. Ogura & S. Hokoi (Higashi-Osaka, Japan)</i>
10h30	Coffee break

Measurement techniques and experimental studies

Session chair: Andrea Hamilton

11h00	New approaches to assess salt induced decay in building stones <i>J. Dassow, A. Leslie, S. Hild, P. Harkness, L. Naylor & M. Lee (Glasgow, UK)</i>
11h20	Diagnostics and monitoring of moisture and salt in porous materials by evanescent field dielectrometry <i>C. Riminesi & R. Olmi (Florence, Italy)</i>
11h40	Determination of the water uptake and drying behavior of masonry using a non-destructive method <i>A. Stahlbuhk, M. Niermann & M. Steiger (Hamburg, Germany)</i>
12h00	Measurement of salt solution uptake in fired clay brick and identification of solution diffusivity <i>E. Mizutani, D. Ogura, T. Ishizaki, M. Abuku & J. Sasaki (Kyoto, Japan)</i>
12h20	Lunch
Session chair: Lisbeth Ottosen	
13h30	How surfactants affect salt crystallization in sandstones? <i>M. Qazi, D. Bonn & N. Shahidzadeh (Amsterdam, The Netherlands)</i>
13h50	Local strain measurements during water imbibition in tuffeau polluted by gypsum <i>M.A. Hassine, K. Beck, X. Brunetaud & M. Al-Mukhtar (Orleans, France)</i>
14h10	Assessment of the durability of lime renders with Phase Change Material (PCM) additives against salt crystallization <i>L. Kyriakou, M. Theodoridou & I. Ioannou (Nicosia, Cyprus)</i>
14h30	Poster session (2 min oral presentations of each poster)
15h00	Coffee break and poster session

Thursday 21 September 2017

Measurement techniques and experimental studies

Session chair: *Ioannis Ioannou*

16h00	Biogenic hydroxyapatite – a new material for conservation <i>A. Hamilton, R. Turner & J. Renshaw (Glasgow, UK)</i>
16h20	Electrode placement during electro-desalination of NaCl contaminated sandstone – simulating treatment of carved stones <i>L. M. Ottosen & L. Andersson (Lyngby, Denmark)</i>
16h40	Salt crystallization effect on the protective treated sandstone by SiO ₂ -based and POSS-based hybrids during hygrothermal cycles <i>M J. Jia, L. He, J Y. Liang and X. Zhao (Xi'an, China)</i>
17h15	Guided tours to the conservation and restoration workshops (UoAS Potsdam)
19h00	Reception at the University of Applied Sciences Potsdam (in the building of the conference)

Studies for conservation issues

Session chair: *Barbara Lubelli*

9h00	Efficiency of laboratory produced water repellent treatments on limestone <i>C. Charalambous & I. Ioannou (Nicosia, Cyprus)</i>
9h20	Environmental control for mitigating salt deterioration by sodium sulfate on Motomachi Stone Buddha in Oita prefecture, Japan <i>K. Kiriya, S. Wakiya, N. Takatori, D. Ogura, M. Abuku & Y. Kohzuma (Kyoto, Japan)</i>
9h40	Management of sodium sulfate damage to polychrome stone and buildings <i>D. Thickett & B. Stanley (English Heritage, UK)</i>
10h00	Conservation of marble artifacts by phosphate treatments: Influence of gypsum contamination <i>E. Sassoni, G. Graziani, E. Franzoni & G.W. Scherer (Bologna, Italy)</i>
10h20	Coffee break

Salt crystallization tests
Session chair: Mike Steiger

10h50	Salt crystallization tests: Focus on their objective <i>E. Charola, I. Rörig-Dalgaard, J. Chwast, J. Elsen & H. Janssen (Washington, DC, US)</i>
11h10	Mitigating salt damage in lime-based mortars with mixed-in crystallization modifiers <i>S. Granneman, B. Lubelli & R.P.J. van Hees (Delft, The Netherlands)</i>
11h30	Artificial decay of rocks for stone treatments evaluation in laboratory <i>D. Costa (Lisbon, Portugal)</i>
11h50	RILEM TC-ASC - Review of laboratory tests <i>B. Lubelli & RILEM TC-ASC working group (Delft, The Netherlands)</i>
12h10	Predicting salt damage in practice: A theoretical insight into laboratory tests <i>R. Flatt & RILEM TC-ASC working group (Zürich, Switzerland)</i>
12h30	Lunch
13h45	Excursion to the <i>Park Sanssouci</i>
19h30	Conference dinner in the <i>Meierei – Park New Garden</i>

Friday 22 September 2017

Studies for conservation issues
Session chair: Heiner Siedel

9h00	Combined non-destructive measurements to understand the salt weathering at the Torre de Quintela, Portugal <i>A. M. Ricardo, W. Wedekind, L.M.O. Sousa & S. Siegesmund (Göttingen, Germany)</i>
9h20	Protecting Pompeii with clay barriers <i>M. Michette & R. Kilian (Oxford, UK)</i>
9h40	How <i>not</i> to bother soluble salts while grouting <i>C. Pasian, F. Piqué, C. Riminesi & A. Jornet (Lugano, Switzerland)</i>
10h00	Early treatments for porous plaster and salt-damaged wall decorations in Scandinavia <i>M.C. Christensen, H. Andersson, I. Brajer & P. Klenz Larsen (Lyngby, Denmark)</i>
10h20	Coffee break

Conservation issues and salt reduction

Session chair: *N.N.*

10h50	The application of hydroxyapatite-based treatments to salt-bearing porous limestones: A study on sodium sulphate-contaminated Lecce Stone <i>G. Graziani, E. Sassoni, G.W. Scherer & E. Franzoni (Bologna, Italy)</i>
11h10	Moisture transport during poultice application <i>C. Franzen, M. Aulitzky & S. Pfefferkorn (Dresden, Germany)</i>
11h30	Evaluation of desalination and restoration methods applied in Petra (Jordan) <i>W. Wedekind & H. Fischer (Göttingen/Berlin, Germany)</i>
11h50	Desalination of Cotta type Elbe sandstone with adapted poultices: Optimization of poultice mixtures and application terms <i>J. Maitschke & H. Siedel (Potsdam/Dresden, Germany)</i>
12h10	Lunch

Salt reduction and case studies

Session chair: *Ákos Török*

13h20	Salt extraction by poulticing – results of a pre-investigation at the archeological site of Coudenberg <i>S. Godts, H. De Clercq & M. Rich (Brussels, Belgium)</i>
13h40	Tracing back the origins of sodium sulfate formation on limestone as a consequence of a cleaning campaign: the case study on Charité and Espérance sculptures of Chartres cathedral <i>S. Benkhalifa, V. Vergès-Belmin, O. Rolland & Leroux Lise (Paris, France)</i>
14h00	Granite and schist masonry desalination by poultices at

14h20	Jacobine Church in Morlaix, France <i>B. Brunet-Imbault, B. Reidiboym & C. Guinamard (Studiolo, Paris, France)</i>
14h40	Investigation of salts sources at the Karadjordje's Gate on the Belgrade fortress <i>M. Franković, N. Novaković, S. Erić, P. Vulić & V. Matović (Belgrade, Serbia)</i>

Case studies

Session chair: *Véronique Vergès-Belmin*

15h10	Salt content of dust and its impact on the wall paintings of the church St. Georg at the UNESCO World Heritage site Monastic Island of Reichenau in Germany <i>J. Frick, M. Reichert, & H. Garrecht (Stuttgart, Germany)</i>
15h30	Investigation and examination of a degraded Egyptian painted limestone relief from Tell Hebua (Sinai) <i>E. Mertah, M. Othman, M. Abdelrahman, M. Fatoh, S. Connor (Cairo, Egypt)</i>
15h50	Salt-induced flaking of wall paintings at the Mogao Grottoes, China <i>L. Wong, S. Bomin, W. Xiaowei, A. Rava & N. Agnew (The Getty Conservation Institute, L.A., US)</i>
16h10	Investigation and conservation concept of salt damaged epitaphs in the church of Werben (Saxony-Anhalt) <i>S. Laue, D. Poerschke & B. Hübner (Potsdam, Germany)</i>
16H40	Closing remarks & Fair well drink

Posters

- P1 Deicing Salts: An Overview
E. Charola, C. Bläuer & B. Rousset (Washington, DC, US)
- P2 Technique for transportation of stone sculptures damaged by salt crystallisation
V. Marinković (Split, Croatia)
- P3 Investigation of the preservation of salt damage about the Buddha statue carved into the cliff by controlling the room temperature and humidity in the shelter
N. Takatori, D. Ogura, S. Wakiya, M. Abuku, K. Kiriya & Y. Kohzuma (Kyoto, Japan)
- P4 Investigation of post-restoration salt weathering at the mosaics of Dafni Monastery, Greece
A. Stefanis, P. Prokos, E. Ftikou & P. Theoulakis (Athens, Greece)
- P5 Dampness problems in renovation plasters shortly after intervention: The case of a historic building in the Old Town of Prague
C. Nunes, O. Skružná & J. Válek (Prague, Czech Republic)
- P6 Development of a network-based climate monitoring system for climate assessment and regulation
C. Leonhardt, S. Leonhardt, J. Heller & D. Hoffmeister (Kiel, Germany)
- P7 Pathology of old and repair mortars after exposure to salts
M. Stefanidou (Thessaloniki, Greece)
- P8 The stone reliefs of Großjena - problems of deterioration and approaches for a salt reduction in a long term
J. Meinhardt, T. Arnold, K. Böhm & B. Hübner (Potsdam, Germany)
- P9 Measurement of hysteresis in sorption isotherm of porous materials with sodium salts (Na_2SO_4 , NaNO_3 , NaCl)
E. Mizutani, D. Ogura, T. Ishizaki, M. Abuku & J. Sasaki (Kyoto, Japan)
- P10 SalzWiki/Saltwiki – Two Specialized Wikis on “Salt Decay”
H.-J. Schwarz & A. Weyer (Hannover/Hildesheim, Germany)
- P11 Migration and crystallization of NaCl Solution in porous materials
H. Luo, J. Zhao, L. Wang & Q. Li (Shanghai, China)