

DAY 1 – SEPTEMBER 6

Building of São Bento / Department of Life Sciences (former Botanic Institute)

8.30 OPENING SESSION

PANEL 1 - BIODETERIORATION

9.00 Keynote Presentation 1 – C. Gaylarde

Black crusts and microorganisms

9.30 Keynote Presentation 2 – A.Z. Miller

Biodeterioration of subterranean cultural heritage: mineral destruction vs construction processes by microorganisms

10.00 Structural diversity of cyanobacteria and microalgae on the UNESCO site 'Old Cathedral of Coimbra' (Portugal): combining culture-dependent and culture-independent methodologies

10.20 Changes in the Microbial Distribution and the Growth Characteristics of Microorganisms in Ancient Tombs at Neungsan-ri Tomb No.1, Buyeo

11.00 COFFEE-BREAK / POSTER SESSION

11.30 Molecular and hybrid nanomaterials for the prevention of biodeterioration of cultural heritage objects

11.50 Biological deterioration and biofilms on archaeological materials. An overview.

12.10 Active Microbial Population for N and S Transformation Colonized on Angkor Sandstone Monuments in Cambodia

12.30 Sulfate production by facultative chemolithotrophic bacteria and fungi from elemental sulfur with relation to deterioration of sandstone in Angkor monuments, Cambodia

12.50 Microbial diversity in biodeteriorated Greek historical documents dating back to the 19th and 20th century: a case study

13.30 LUNCH

PANEL 2 - NEW TRENDS AND METHODOLOGIES

14.30 Keynote Presentation 1 – G. Piñar

New trends and methodologies in cultural heritage studies: potential and challenges

15.00 Keynote Presentation 2 – F. Pinzari

See it, so you believe it: power and potentialities of microscopy in biodeterioration studies

15.30 Metabolomics and metagenomics – modern methods in identification of microorganisms and metabolites responsible for deterioration of historical objects

15.50 Next-generation-sequencing technologies applied to cultural heritage biodeterioration scenarios: critical steps in mycota data analysis

16.10 Microbial structural diversity of biodeteriorated stone biofilms samples collected from four chapels of the old cathedral of Coimbra

16.30 Microbiota on the Royal Palace Sandstone in Angkor Thom and Beng Mealea of Cambodia by Illumina Sequencing

17.00 COFFEE-BREAK / POSTER SESSION / IBBS AGM MEETING

DAY 2 – SEPTEMBER 7

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PANEL 3 - TREATMENT

- 9.00 Keynote Presentation 5 – P. Sanmartín**
Smart lighting control for protection and treatment of outdoor stone monuments: experimental designs of lighting setups, lab, and field tests
- 9.30 Keynote Presentation 6 – D. Pangallo**
Potential treatments used in conservation and restoration applications
- 10.00** Vapourised hydrogen peroxide disinfection of historical objects made from cardboard originating from the Auschwitz-Birkenau State Museum in Oświęcim, Poland
- 10.20** Fungal biodeterioration of paper – Development of sustainable conservation treatments

11.00 COFFEE-BREAK / POSTER SESSION

- 11.30** Development of gels for cleaning fungal stains on paper
- 11.50** Mould on paper – the effectiveness of dry cleaning methods
- 12.10** Inhibition of microbial biodeteriogens involved in biodeterioration of cultural heritage and artworks using biofungicide produced by anaerobic digestion
- 12.30** Assessment of the effect of lichen cleaning methods on two archaeological stone substrata by means of bioreceptivity studies
- 12.50** Hybrid materials for the conservation of Roman mosaics: preventing biodeterioration

13.30 LUNCH

PANEL 4 – POLICIES AND ENTREPRENEURSHIP

- 14.30 Keynote Presentation 7 – T. Warscheid**
Biodeterioration in Cultural Heritage – Risk assessment for a sustainable preservation
- 15.00** Biodeterioration control strategies at Portuguese archives and libraries : A century of preservation and conservation practices
- 15.20** From R&D to market: What's stopping you?
- 15.40** Environmental Control Features of Traditional Wooden Architectures as a Wooden Box for Preserving Cultural heritage
- 16.00 Keynote Presentation 8 – K. Sterflinger**
Research and consulting on historic materials and cultural properties: future directions and challenges

16.40 CLOSING CEREMONY AND AWARDS

17.10 COFFEE-BREAK / POSTER SESSION

17.30 BIODETERIORATION GROUP MEETING

SOCIAL PROGRAMME

DAY 0 – SEPTEMBER 5 National Museum of Machado de Castro

- 15.00** **REGISTRATION**
- 17.00** **WELCOME RECEPTION**
- 18.30** Fado performance by “**Fado Hilário**”
- 19.00** Guided tour of the Museum and ***Cryptoporticus***
- 20.30** Visit to ***Praxis***, a beer museum and factory, where visitors can have dinner (optional)
- We will walk down from the University to the riverside, across the river and into the restaurant, for around 30 minutes

DAY 1 – SEPTEMBER 6

- 20.00** Conference dinner at the **Quinta das Lágrimas Hotel**
- 23.30** Social meeting for a drink at the **Galeria Bar**, with an open area outside, and a nice view of the city, and just a couple of minutes’ walk from the dinner site (optional)