



Conference Program – ECBSM2016

2nd European Conference on Biodeterioration
of Stone Monuments November 17-18, 2016



University of Cergy-Pontoise
Cergy-Pontoise, France

Thursday November 17

14h30 – 15h30. **Welcome of participants. Upload of the presentations.**

15h30 – 16h15. **Opening lecture 1. Heather VILES.** ARCHITECTURAL CONTROLS ON THE BIORECEPTIVITY OF SANDSTONE TO GREEN ALGAL COLONIZATION.

16h20 – 17h05. **Opening lecture 2. Anna GORBUSHINA.** BARE ROCK BIOFILMS - MODEL SYSTEMS IN BIODETERIORATION SCIENCES

In the evening departure by special bus for dinner in Paris (invited speakers and registered participants to dinner).

Friday November 18

08h45 – 9h15. **Welcome of participants. Upload of the presentations.**

09h15 – 9h30. **Introduction. Francesca CAPPITELLI and Patrick DI MARTINO.**

Session 1. BIOFILM FORMATION ON MONUMENTS.

Chairwoman **Anna GORBUSHINA**, Chairman **Patrick DI MARTINO**.

09h30 – 9h55. **Romain BRIANDET.** BIOFILM AS A PROTECTIVE HABITAT FOR MICROBES.

10h00 – 10h15. **Francesca CAPPITELLI.** BIOFILM VS. TYPE OF STONE AND BIOFILM VS. ENVIRONMENTAL CONDITIONS AND BIOCIDES: THE MONZA CATHEDRAL CASE STUDY.

10h20 – 10h35. **Judith M. JACOB.** OBSERVATIONS OF LICHENS AND BIOFILMS ON MARBLE MONUMENTS IN 18TH- AND 19TH-CENTURY LITERATURE.

10h40 – 10h55. **Magdalena OWCZAREK-KOŚCIELNIAK.** ASSESMENT OF COLONISING ORGANISMS OF TOMBSTONES IN AN URBAN ENVIRONMENT – A CASE STUDY OF THE RAKOWICKI CEMETERY (CRACOW, POLAND).

11h – 11h15. **Katherine JANG.** THE DEGRADATIVE EFFECTS OF BRYOPHITIC GROWTH AND MOISTURE ON HISTORIC ROOF STRUCTURES.

11h20 – 11h35. **Anaïs GRANDCLERC.** INTERACTION BETWEEN MICROORGANISMS AND CEMENTITIOUS MATERIALS IN SEWER PIPE CONDITIONS.

11h40 – 11h55. **Federica VILLA.** ADVANCEMENTS TOWARDS A SYSTEM-LEVEL UNDERSTANDING OF SUBAERIAL BIOFILMS INHABITING OUTDOOR STONE MATERIALS.

12h – 12h15. **Virginia DE BILLERBECK.** STONE MONUMENTS BIODETERIORATION: THREE CASE STUDIES IN WHICH PHOTOSYNTHETIC ORGANISMS ARE INVOLVED.

12h20 – 13h20. **Lunch**

Session 2. BIODETERIORATION OF ROCK CAVES.

Chairwomen **Agnès MIHAJLOVSKI** and **Pedro M. MARTÍN SÁNCHEZ**.

13h25 – 13h50. **Pedro M. MARTÍN SÁNCHEZ.** BIODETERIORATION OF ROCK ART CAVES: THE CASES OF LASCAUX AND ALTAMIRA.

13h55 – 14h10. **Guilhem MAURAN.** BIOTERIOGENIC ACTIVITY OF MICROBIAL BIOFILMS' COMMUNITIES OF ESCOURAL CAVE.

14h15 – 14h30. **Agnès MIHAJLOVSKI.** BIOFILM COMMUNITIES SURVEY AT THE AREAS OF SALT CRYSTALLIZATION ON THE WALLS OF A DECORATED SHELTER LISTED AT UNESCO WORLD HERITAGE.

14h35 – 14h50. **Annalaura CASANOVA MUNICCHIA.** EVALUATION OF THE BIODETERIORATION EFFECTS OF LICHENS IN THE CAVE CHURCH OF UZUMLU (CAPPADOCIA, TURKEY).

Session 3. TREATMENTS OF BIODETERIORATION OF STONE MONUMENTS.

Chairwoman **Francesca CAPPITELLI**, Chairwoman **Paula DEPRIEST**.

14h55 – 15h20. **Ethan PERETS and Paula DEPRIEST**. STATISTICAL ANALYSES OF BIOCOLONIZATION AND TREATMENTS ON THE ASOTA LIMESTONE OF THE NATIONAL MUSEUM OF THE AMERICAN INDIAN.

15h25 – 15h40. **J.S. POZO-ANTONIO**. COLOUR SPECTROPHOTOMETRY AS AN IN SITU EVALUATION TOOL FOR CLEANING AND WATER-REPELLENT TREATMENTS IN A GRANITIC WALL.

15h45 – 16h15. **Coffee break**

16h20 – 16h35. **A.M. AFONSO**. THE USE OF BIOCIDES IN “CINZA PINHEL” GRANITE ORNAMENTAL STONES.

16h40 – 16h55. **Sergio E. FAVERO-LONGO**. SPECIES-SPECIFIC SENSITIVITY OF LICHENS TO COMMERCIAL BIOCIDES AND APPLICATION SOLVENTS.

17h – 17h15. **Blen Taye GEMEDA**. CONSERVATION ASPECTS OF THE ROCK-HEWN CHURCHES OF LALIBELA, ETHIOPIA: EFFICACY OF LASER CLEANING IN THE REMOVAL OF BIOLOGICAL PATINA ON VOLCANIC SCORIA.

17h20 – 17h45. **Silvestro A. RUFFOLO**. PHOTOCATALYTIC TITANIUM DIOXIDE FOR THE MITIGATION OF BIOCOLONIZATION ON STONE MATERIAL.

17h50 – 18h05. **Michela GAMBINO**. ZINC OXIDE NANOPARTICLES HINDER FUNGAL BIOFILM DEVELOPMENT IN ANCIENT EGYPTIAN TOMBS.

18h10 – 18h35. **Patricia SANMARTÍN**. INNOVATIVE AND SAFE APPROACHES FOR CLEANING MONUMENTS: THE BIOREMOGRAF AND LIGHT4HERITAGE PROJECTS.

18h40 – 18h55. **Veronica VALLE**. TESTING OF MONOCHROMATIC LEDS FOR THE CONTROL OF BIODETERIORATION IN HYPOGEAN ENVIRONMENT.

19h00 – 19h10. **Conclusion**.

Chairwoman **Francesca CAPPITELLI**, Chairman **Patrick DI MARTINO**.