Our heritage: where the past meets the future

Throughout 2018, we will celebrate our diverse cultural heritage across Europe - at EU, national, regional and local level. The aim of the European Year of Cultural Heritage is to encourage more people to discover and engage with Europe’s cultural heritage, and to reinforce a sense of belonging to a common European space. The year 2018 will see a series of initiatives and events across Europe to enable people to become closer to and more involved with their cultural heritage. Cultural heritage shapes our identities and everyday lives. It surrounds us in Europe’s towns and cities, natural landscapes and archaeological sites. It is not only found in literature, art and objects, but also in the crafts we learn from our ancestors, the stories we tell to our children, the food we enjoy in company and the films we watch and recognise ourselves in. The year 2018 belongs to all to experience, appreciate, and enjoy cultural heritage. Everyone is invited to join the thousands of activities taking place across Europe to involve people more closely with cultural heritage.

10.10.18 | 17:00-20:00
- Visit to the Digital Exhibition of Advanced Technology «The Tomb of Christ: The monument and the project»
- Welcome Reception
### Session Schedule

#### 8:00-9:00
- **Registrations**

#### 9:00-10:30
- **Opening Session**

#### 10:30-10:45
- **Coffee Break**

#### 10:45-12:30 (Session I.1)
**Session Chairs:** Prof. A. Moropoulou NTUA, Prof. Emer. M. Korres ACADATH, Prof. A. Georgopoulos NTUA, Prof. C. Spyrakos NTUA, Asst. Prof. Ch. Mouzakis NTUA
**Title:** The Project of the Rehabilitation of Holy Sepulchre's Holy Aedicule as a pilot multispectral, multidimensional, novel approach through Transdisciplinarity and Cooperation in the Protection of Monuments

#### 12:30-14:00
- **Panel discussion I.1**

#### 14:00-15:00
- **Lunch Break**

#### 15:00-17:30 (Session I.2)
**Session Chairs:** Prof. Ch. Ioannidis NTUA, Prof. I. Fudos UOI, Prof. K. Tokmakidis AUTH
**Title:** Digital Heritage

#### 17:30-19:30 (Session I.3)
**Session Chairs:** Pieter de Vries SEFI, Prof. I. Efesiou NTUA, Prof. Stefano Della Torre POLIMI
**Title:** Novel Educational Approach for the Preservation of Monuments

#### 19:30-21:00
- **Panel discussion I.3**

#### 15:00-16:30 (Session II.1)
**Session Chairs:** Dr. J. Leissner FRAUNHOFER, Prof. E. Sesana UWS, Dr. G. Padeletti CNR
**Title:** Resilience to Climate Change and Natural Hazards

#### 16:30-18:15 (Session II.2)
**Session Chairs:** Prof. P. Koutsoukos UOP, Prof. P. Spathis AUTH, Prof. B. Christaras AUTH
**Title:** Conserving sustainably the Materiality of Structures and Architectural Authenticity

#### 18:15-20:45 (Session II.3)
**Session Chairs:** Prof. M. Philokyprou UCY, Prof. P. Asteris ASPETE, Prof. Th. Matikas UOI
**Title:** Interdisciplinary Preservation and Management of Cultural Heritage

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_During the conference, Hall 2 will be at the disposal of the panelists and the session chairs, for preparatory meetings_
## Session Schedule

### 9:00-12:00

**Session I.4: Sustainable Preservation and Management Lessons learnt on Emblematic Monuments**

*Session Chairs:* E. Kountouri HMC, Prof. I. Psycharis NTUA, Asst Prof. P. Maravelaki TUC

### 12:00-13:30

**Panel discussion I.4: Bringing together Heritage Stakeholders, Science and Industry**

### 13:30-14:30 Lunch Break

### 14:30-17:30

**14:30-16:45 Session I.5: Cross-discipline Earthquake Protection and Structural Assessment of Monuments**

*Session Chairs:* Th. Vlahoulis HMC, Prof. C. Spyarakos NTUA, Prof. G. Stavrouakis TUC

**16:45-17:30 Session I.6: Cultural Heritage and Pilgrimage Tourism**

*Session Chairs:* Prof. A. Prepis DUTH, Dr. Nenad Vesic ICOMOS PRERICO, Asst Prof. S. Athanasiou UNIBE

### 16:00-17:30 Session II.5

*Session Chairs:* Prof. N. Zacharias UOP, Prof. A. Papageorgiou UOI, Asst. Prof. A. Saisi POLIMI

### 17:30-20:15 Session II.6

*Session Chairs:* Prof. D. Aggelis VUB, Prof. Osman Ahmad FRAUNHOFER IZFP, Dr. K. Lampropoulos NTUA

### 20:45-21:00 Closure

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*During the conference, Hall 2 will be at the disposal of the panelists and the session chairs, for preparatory meetings*
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**Dr. Fredrik Hiebert**, Archaeologist | World Monuments Fund **Yiannis Avramidis** |
| European Commission D.G. Connect **Dr. Albert Gauthier** | ICOMOS **Dr. Elena Korka**, Member of the Board |

Address of the President of the Hellenic Parliament **Mr. Nikos Voutsis**  
by the President of the Standing Committee of the Cultural and Educational Affairs of the Hellenic Parliament  
**NTUA Prof. Dimitris Sevastakis**

Deputy Minister of Foreign Affairs of the Hellenic Republic  
**Mr. Markos Bolaris**

Presence of the Deputy Minister of Culture and Sports of the Hellenic Republic **Mr. Costas Stratis**

### Opening Lecture

The Project of the Rehabilitation of Holy Sepulchre’s Holy Aedicule as a pilot multispectral, multidimensional, novel approach through Transdisciplinarity and Cooperation in the Protection of Monuments  
**Prof. Antonia Moropoulou**, NTUA, Chief Scientific Supervisor of the Project, President of the TCG General Assembly

### Opening of the Conference

Minister of Digital Policy, Telecommunications and Media of the Hellenic Republic  
**Mr. Nikos Pappas**

### Benediction

Message of His Beatitude **Archbishop Hieronymus II** of Athens and All Greece

Representatives of the **three Christian Communities, Guardians of the Holy Tomb**
### 11.10.18 | 10:45-12:30 Auditorium

**Session I.1** The Project of the Rehabilitation of Holy Sepulchre’s Holy Aedicule as a pilot multispectral, multidimensional, novel approach through Transdisciplinarity and Cooperation in the Protection of Monuments

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### 11.10.18 | 12:30-14:00 Auditorium

**Panel discussion I.1** The Project of the Rehabilitation of Holy Sepulchre’s Holy Aedicule as a pilot multispectral, multidimensional, novel approach through Transdisciplinarity and Cooperation in the Protection of Monuments

**The NTUA Interdisciplinary Team**

- **Prof. Antonia Moropoulou**, NTUA School of Chemical Engineering - *Coordinator*
- **Prof. Manolis Korres**, Emeritus, Academy of Athens
- **Prof. Andreas Georgopoulos**, NTUA School of Rural & Surveying Engineering
- **Prof. Constantine Spyrakos**, NTUA School of Civil Engineering
- **Asst. Prof. Charalambs Mouzakis**, NTUA School of Civil Engineering

**National Geographic Society**

- Fredrik Hiebert, Archaeologist

**World Monuments Fund**

- Yiannis Avramides, Civil Engineer

**European Commission D.G. Connect**

- Albert Gauthier

**Invited**

Representatives of the three Christian Communities, Guardians of the Holy Tomb

- **Asst. Prof. Stefanos Athanasiou**, University of Bern, Faculty of Theology - *Rapporteur*
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#### Session I.3 Novel Educational Approach for the Preservation of Monuments

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NTUA                                                                                                                            |

### 11.10.18 | 19:30-21:00 Auditorium

#### Panel discussion I.3 Novel Educational Approach for the Preservation of Monuments

- **Prof. Pieter De Vries**, Delft, European Society for Engineering Education (SEFI) - Coordinator
- **Prof. Irene Efesiou**, NTUA, Post-Graduate MSc Program "Protection of Monuments"
- **Prof. Maria Arkadaki**, AUTH, Protection, Conservation and Restoration of Cultural Monuments Interdepartmental Program of Post Graduate Studies
- **Prof. Antonia Moropoulou**, NTUA, Post-Graduate MSc Program "Protection of Monuments", President of the TCG General Assembly
- **Prof. Nikos Zacharias**, University of Peloponnese, Department of History, Archaeology and Cultural Resources Management, President
- **Prof. Eleni Maistrour**, President of the Council of Architectural Heritage of the Society for the Environmental and Cultural Heritage, ELLET
- **Prof. Anastasia Sotiropoulou**, ASPETE, Department of Civil Engineering Educators
- **Prof. Marios Pelekanos**, Frederick University of Cyprus
- **Marcie Goodale**, National Geographic Learning, Product Director
- **J.J. Kelley**, Emmy-nominated Film Maker of National Geographic
- **Antonia Lampropoulou**, NTUA - Rapporteur
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Panel discussion I.4  Bringing together Heritage Stakeholders, Science and Industry
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Yuval Baruch, Israeli Antiquity Authorities
Michalis Daktylides, PEDMEDE, European Construction Industry Federation (FIEC)
Kyriakos Themistokleous, Cyprus Scientific and Technical Chamber (ETEK), Member of the Executive Committee
Prof. Panagiotis Touliatos, Frederick University of Cyprus
Stefano Dellatore, Politecnico di Milano
Athina Chatzipetrou, President Hellenic Archaeological Fund
Dr. Evgenia Tzannini, Lawlecturer NTUA - T.C.G.
Özgür Turan Aksan, Architect Istanbul
Representative of the Hellenic Construction Technology Platform - T.C.G. Dr. Ekaterini T. Delegou, NTUA
Elena Korka, ICOMOS, Member of the International Board - Rapporteur

Session I.5  Cross-discipline Earthquake Protection and Structural Assessment of Monuments

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Innovative scientific methodologies and challenging projects marking future trends in the protection of cultural heritage, have initiated a universal conversation within a holistic approach, merging capabilities and know-how from the scientific fields of architecture, civil engineering, surveying engineering, materials science and engineering, information technology and archaeology, as well as heritage professionals and state holders in cultural heritage. The advanced digital documentation permits the data fusion of interdisciplinary innovative modelling, analytical and non-destructive techniques, supporting the emergence of a transdisciplinary field for multispectral sustainable preservation and management of cultural heritage. Within this field communication, social awareness and participation is enhanced.

To this end, new finding tools, schemes and mechanism are searched out on the basis of reuse of heritage assets to generate revenue for a sustainable preservation towards circular economy.

The project of the rehabilitation of Holy Sepulchre’s Holy Aedicule as a pilot multispectral, multidimensional, novel approach through transdisciplinarity and cooperation in the protection of monuments motivated the organization of this Conference.

The proceedings of the TMM_CH conference will be published in Springer’s communications in Computer and information Science – volume numbers CCIS 961 & CCIS 962 - and will be available online by the 15th of December 2018 for 4 weeks.

Selected papers will be published in scientific journals in the field of Cultural Heritage Preservation.

- Journal of Heritage (ISSN 2571-9408) – Special Issue "Sustainability Management and Preservation of Built and Archaeological Heritage"
- Journal of Construction and Building Materials (ISSN 0950-0618)
- European journal of Engineering Education (ISSN 1469-5898)
- An International journal of NDT & E (to be defined)

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