

CONFERENCE PROGRAMME



16th International Conference on Studies, Repairs and Maintenance of Heritage Architecture



STREMAH 2019

NOTES TO CHAIRS AND PRESENTERS

Chairs must be in their respective rooms 10 minutes before the start of their session to meet with the presenting authors.

Authors must meet with the Chair of their session
10 minutes before the start of the session.

Authors must keep strictly to the time allocated for their presentation
to ensure the smooth running of the programme.

This programme is subject to last-minute alterations, please refer to the
conference noticeboard for the most up-to-date information.

7 - 9 October 2019
Seville, Spain

Organised by:
Wessex Institute, UK

Supported by:
WIT Transactions on The Built Environment

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STREMAH 2019
7 - 9 October 2019, Seville, Spain



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STREMAH 2019

7 - 9 October 2019, Seville, Spain



Monday, 7th October 2019

08.00 Registration

09.00 Opening Address by Conference Chair

Session 1: Re-use of Heritage Buildings

Session Chair: W.P. De Wilde

09.30 Permitting significant harm in the conservation of heritage assets: conflicts in sustainable land use planning decisions
H.A. Nash

09.50 Built heritage use and compatibility evaluation methods: towards an effective decision making
A. Konsta

Additional Presentation:

10.10 The preventative preservation of cultural heritage under hot and humid climate: a case study of Tainan Confucian Temple in Taiwan
Y. Chieh Chu, M. Fu Hsu, T. Yu Lin & P. Yu Yi

REFRESHMENT BREAK

Session 2: Learning from the Past

Session Chair: M. Sykora

11.00 Reading the research: publications on vernacular architecture
G. Ozorhon & I.F. Ozorhon

11.20 Evaluating the performance of daylighting traditional device "The Mashrabiya" in clear sky conditions: case study of Bahrain traditional house
H.M. Aljawdar & H.A. El-Wakeel

11.40 The value of wisdom through experience - sustainable heritage
C.J. Howard

12.00 Investigating the ways of learning from vernacular architecture
I.F. Ozorhon & G. Ozorhon

LUNCH

Monday, 7th October 2019

Session 3: Heritage Architecture and Historical Aspects

Session Chair: W. Shaheen

- 14.00 Meanings and significance of the colonial architecture in Douala
Z. Ousmanou
- 14.20 A historical study of Jinja, Uganda: a city influenced by industrial developments during the early 20th century
A. Kalimungabo Wako & M. Olweny
- 14.40 Heritage significance of late 19th and early 20th century buildings of the Buganda Kingdom
G. Kafuuma, E. Muhwezi & M. Olweny
- 15.00 Access to heritage: the role of the Maltese National Cultural Heritage Agency
K. Maniscalco
- 15.20 Analysing the impact of comprehensive refurbishment policies on social and heritage protection issues
O. Grijalba-Aseguinolaza & A. Eizaguirre-Iribar

REFRESHMENT BREAK

Session 4: Management and Assessment of Heritage Buildings

Session Chair: W.P. De Wilde

- 16.10 Built heritage of the dismantled railway network: main causes of its preservation
U. Llano Castresana & A. de la Fuente Arana
- 16.30 Restoration of the monument of Ludovico Ariosto, Piaaza Ariostea, Ferrara
C. Modena, B. Caglioti & E. Cescatti
- 16.50 Energetic retrofit of historical downtown buildings: cost effectiveness and financing options
V. Sugar, M. Kita & Z. Ballo
- 17.10 Architecture and cultural heritage management tools: landscape action plans
A. de la Fuente Arana & U. Llano Castresana

END OF DAY 1

Tuesday, 8th October 2019

Session 5

Session Chair: W.P. De Wilde

Part 1: Rehabilitation

Invited:

- 09.00 Corrosion of historic grey cast irons: indicative rates, significance and protection
M. Sykora, K. Kreislova & P. Pokorny
- 09.30 Structural performance of concrete elements retrofitted by geopolymer strengthening system: input in the rehabilitation of historical buildings
E.J. Guades & H. Stang

Part 2: Heritage Masonry Structures

- 09.50 Assessment and rehabilitation of a heritage masonry building in Piraeus, Greece
C. Maraveas & F. Andris
- 10.10 Mechanical properties of rock units from archaeological Pompeii site
F. Autiero, G. De Martino, M. Di Ludovico & A. Prota

REFRESHMENT BREAK

Session 6

Session Chair: M. Sykora

Part 1: Heritage Conservation

- 11.00 Sustainable development of urban conserved heritage: an analytic study of Kursunlu Mosque in Ulus, Ankara
K.F. Hmood & G. Disli
- 11.20 Documenting the old houses of Ras Al Khaimah—UAE
T. Abuhantash
- 11.40 Rural architectural heritage conservation and sustainability in Turkey: the case of Karaca village of Malatya Region
T.N. Olgun & M.B. Karatosun

Part 2: Heritage Intervention

- 12.00 The balanced intervention theory: A conservative but adaptive solution for the traditional Basque architectural model
M. Etxebarria Mallea, L. Etxepare Iginiz & M. de Luxan Garcia de Diego
- 12.20 Towards a new approach of architectural heritage intervention in Portugal: Fernando Távora and the refurbishment of the Casa da Igreja of Mondim de Basto (1958-1961)
D. Ordonez-Castanon, T. Cunha-Ferreira & S. Sanchez-Beitia

LUNCH

Tuesday, 8th October 2019

Session 7: Heritage and Tourism

Session Chair: W.P. De Wilde

- Invited:**
- 14.00 Planning and rehabilitation in historical areas and its repercussions on the tourism and economic sectors in Palestinian areas
W. Shaheen
- 14.30 Indicators of sustainable development for cultural landscapes. Film sceneries and cultural heritage
E. San Sebastián Poch, U. Llano Castresana & A. de la Fuente Arana
- 14.50 Concrete as heritage: social perception and its valuing. The Zarzuela Hippodrome case
G. Ramirez Guerrero, M. Arcila Garrido, A. Chica Ruiz & D. Benitez Lopez
- 15.10 Historical heritage as a tourist resource. The case of the province of Cadiz (Spain)
D.M. Calderon Puerta & M. Arcila Garrido
- Additional Presentation:
- 15.30 Structural analysis of wood trusses of San Paolo Fuori Le Mura
E.C. Robison

REFRESHMENT BREAK

Session 8

Session Chair: W. Shaheen

Part 1: Modern (19th/20th Century) Heritage

- 16.20 19th century salt baths of Transylvania
K. Ferenc
- 16.40 Traces and scars. The reconstruction of Madrid's Ciudad Universitaria after the Spanish Civil War
J. Munoz Hernandez & J.L. Gonzalez Casas

Part 2: Heritage Architecture and Historical Aspects

- 17.00 The planned and untold story of the city's architecture – the pre-industrial plan for the riverside boundary of Lisbon: materialized and remaining aspects of Carlos Mardel's Plan from 1733
A. Da Conceicao Lopes & C.J. Henriques Ferreira
- 17.20 The knowledge and interpretation processes of the Andalusi Bath of El Nogal or Banuelo (Hamman Al Yawza) in Granada, Spain (1832-2019)
A. Orihuela & J.M. Lopez-Osorio**
- 17.40 Characterisation of historical lighthouses as industrial heritage elements. Application to the lighthouse of the island of Santa Clara (Spain)
S. Sanchez-Beitia, D. Luengas-Carreno & M. Crespo de Antonio

END OF DAY 2

Wednesday, 9th October 2019

Session 9

Session Chair: W.P. De Wilde

- 09.30 Reviving craftsmanship and crafts within the context of industrial architectural heritage
M.H. Nasri & A.M. Mansour
- 09.50 The structural assessment of Dubrovnik Cathedral
J. Galic, H. Vukic & D. Andric
- 10.10 The Spanish social housing in the twentieth century. Typological analysis of residential complexes built in Castellon in the 50s
M. Cabeza, B. Saez, M.J. Rua, P. Huedo & R. Agost
- 10.30 Consolidation of natural stone with calcium hydroxide nanosuspension in ethanol and verification of surface hardening rate
K. Kroftova, D. Skoda, J. Witzany & T. Cejka

REFRESHMENT BREAK

Session 10: Joint Session with BIM 2019

Session Chair: A. Galiano Garrigos

- 11.20 Value added application of the 3D laser point cloud scanning technique through its appropriate uses in heritage conservation
C-J. Chen, C-W. Fong & Y-C. Chen
- 11.40 Displaying a university's Frank Lloyd Wright artefact reproductions: physical and virtual environments
P. Hebert, T. Chandrasekera & G. Clare
- 12.00 Image recognition system for use in restoring granite items in Taiwanese heritage buildings
P-Y. Shang, M-F. Hsu & H-J. Yang
- 12.20 Using of fiber optic sensors and 3D photogrammetric reconstruction for crack pattern monitoring of masonry structures at the "Aurelian Walls" in Rome
I. Bellagamba, M. Caponero & M. Mongelli
- 12.40 Utilizing virtual reality technology in the preservation of architectural heritage: An empirical study of the local architecture of Hijazi identity in the Mecca region
R.F. Alsabban

CLOSURE OF STREMAH 2019

We hope you have enjoyed the conference and look forward to seeing you at the next meeting in the series, have a safe and pleasant journey home.

CONFERENCE DINNER - *Please confirm your place with the Conference Coordinator*