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coastal buildings, increased acidic rainfall is causing greater rates of erosion, creeping desert sands are crushing ruins, and record-breaking winds are causing monumental collapses. There is a renewed sense of urgency to record and attempt to save medieval buildings at risk.

Archaeologists cannot stop climate change nor eradicate many of the challenges facing medieval buildings; however, is the sector doing enough to make a priority of saving buildings at risk? Are local solutions adequate or is a broader approach required? This session invites papers documenting medieval buildings at risk from any challenge particularly, but not restricted to, climate change. Furthermore, stories of success and failure in relation to restoration, preventive conservation, planning legislation, as well as exploratory papers examining possible solutions are welcomed.

ABSTRACTS

1 CARRICKFERGUS TOWNSCAPE HERITAGE INITIATIVE: A HIDDEN TOWER HOUSE

Author(s): Patrick, Laura (Queen's University Belfast)

Presentation Format: Oral

Carrickfergus Townscape Heritage Initiative (THI) is funded by the Heritage Lottery Fund, and delivered by the Mid and East Antrim Borough Council. The project, 2016 to 2020, supports local property owners in caring for and preserving the town's historic fabric. Additionally, an Education Programme raises awareness of the importance of our local built heritage, and why it should be preserved for future generations.

Despite the fact that Carrickfergus was once the premier town in medieval Ulster, unlike its counter parts in the south of the Ireland, for example Kilkenny, much of the town's medieval fabric has been lost. This loss has been caused through periods of both destruction and 'improvement'. Until recently the only structures with any upstanding, positively identified medieval fabric were the castle and St Nicholas Church, although the latter has been heavily modified. However, thanks to the survival of 16th century maps, visual evidence provides us with confirmation that there were a range of medieval buildings in the town. The location of a small selection of have been identified through rescue excavations, but it was only in 2018 that remains of an upstanding tower house were revealed, thanks to support from the THI Education Programme.

This paper looks at the investigative process that was undertaken, the findings and final outputs. Also addressed is the way in which buildings are reinterpreted visually for the public, the town-scape and wider tourism offering. Given the proximity to the coast, how can such a building be protected from coastal erosion and major existing damp issues, while also functioning as a working hotel? As the building was listed, not scheduled, and the earliest photographic image is from c.1890, should it be presented as a tower house, or a Victorian style building? The final planning decision will also be explored in this paper.

2 IN-SITU PRESERVATION OF MEDIEVAL ARCHAEOLOGICAL STRUCTURES IN TRONDHEIM, NORWAY

Author(s): Cadamarteri, Julian - Martens, Vibeke (NIKU - Norwegian Institute for Cultural Heritage Research)

Presentation Format: Oral

Norwegian medieval towns are subject to extensive urban transformations and renovations which have triggered large archaeological projects over the past decades. It has resulted in the in-situ restoration and preservation of many sites and vestiges of various dimensions with good results. Still, there is little indication that the layperson is either informed or involved.

In-situ museums tend to not be integrated in the planning and life of the city and thus lie separated from the public understanding of the urban development and history of the city. This is thus an underused resource for city planners and urban developers and for the general public.

We will approach the topic through a case study of in-situ building remains from archaeological excavations in Trondheim, with particular focus on the medieval period (from AD 1000 to 1550). They will be analysed in the light of the national and international debates currently surrounding the methods used to disseminate information and research about excavation of medieval building sites.

3 MEDIEVAL ARCHITECTURE AROUND AFRICAN CITIES. KHARTOUM AND OMDURMAN CITIES CASE STUDIES

Author(s): Drzewiecki, Mariusz (Polish Centre of Mediterranean Archaeology, University of Warsaw)

Presentation Format: Oral

Last twenty years was a time of rapid urban development in Africa. Large centres are often located in areas which people in the past also favoured. The author is conducting archaeological projects in Khartoum Province, on the outskirts of Sudan largest cities, Khartoum and Omdurman.

Remains of medieval capital in Soba are now being incorporated into the modern residential district of Khartoum. The remains of the capital covered 275ha. Now only 53ha are available for research. On the outskirts of Omdurman, early medieval forts are being damaged by agricultural and building activities. The situation seems hopeless.

The light in a tunnel are people who live in the area and are interested in saving the heritage. The author in collaboration with National Corporation for Antiquities and Museums of Sudan and Al-Neelain University is launching projects to document the

heritage engaging the local population in the process. Positive remarks can be expected at the end of the presentation.

Projects are funded by National Science Centre (Poland) based on agreements nos UMO-2016/21/D/HS3/02972 and UMO-2018/29/B/HS3/02533.

4 **THREE NOBLE MEDIEVAL DWELLINGS IN CARDONA (BARCELONA): THREE DIFFERENT WAYS TO UNDERSTAND HERITAGE BY THEIR OWNERS**

Author(s): Pancorbo Picó, Ainhoa (Town Hall of Cardona)

Presentation Format: Oral

Besides the well known outstanding heritage in Cardona enjoying the maximum legal protection, as the castle and the Romanesque canonical church, both presiding the medieval town, we can also find three other buildings scattered inside the gothic wall of Cardona which can be defined as palaces or noble dwellings. Located below the hill of the castle, and therefore visually communicated, two of them can be traced back to the 13th century while the third one is a Renaissance building probably built above a medieval one. Apart from analyzing the typology of these three interesting buildings and its distribution and comparing them with other well known parallels near them, in this paper we are going to study how their owners faced the challenge of its preservation once the properties, in really bad conditions, came into their hands; in which state we found them around year 2000, and how we currently find them. We are also going to review the knowledge the neighbors had about them at the beginnings and which one they have nowadays. In summary, we are going to see three extremely different ways of understanding heritage and therefore three different ways of preserving it and leaving it to our descendants.

5 **HERITAGE AT RISK: ISSUES, IDENTITIES, AND SOLUTIONS**

Author(s): Kerr, Sarah (Trinity College Dublin)

Presentation Format: Oral

Ireland and Britain suffered considerable damage to their standing archaeology during a series of storms in 2018. These monumental losses coincided with the report by United Nations/ Intergovernmental Panel on Climate Change (October 2018) which detailed the impacts of global warming of 1.5 °C above pre-industrial levels, including an increase in the severity and incidence of extreme weather events, such as cyclones. The report argues for a cross-regional response to climate change, and discusses detrimental impacts to 'social and cultural assets'. Several European-level reports indicate that an interdisciplinary approach must be implemented to tackle this and other societal challenges (E.g. European Commission 2013, 163; European Commission 2017, 16).

This paper will introduce a number of case studies deemed at-risk from climate change-related storms and the specific challenges facing each. The potential impacts on cultural identity will be examined, through the prism of medieval building loss, drawing on interdisciplinary theories and approaches. The third element of the paper will explore the local and national strategies in place to tackle these issues set within the European context.

A. **MEDIEVAL BUILDINGS UNDER THE III. COURTYARD OF PRAGUE CASTLE. HERITAGE MANAGEMENT AND EVALUATION OF THE ACTUAL AND FUTURE RISKS**

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Presentation Format: Poster

Extensive archaeological excavations of the III. Courtyard of Prague Castle conducted in the 1920s uncovered medieval buildings of various functions (profane, sacral and defensive) and of different construction materials (wooden and stone). The uncovered features were preserved in situ, using conservation methods of the period, and the areal was covered with a concrete desk, with the aim of presenting it to the public. Although this aim has never been fully realized, this method of conservation exposes the historical features to unstable external conditions and causes particular risk for their future preservation. In general, the heritage management of this unique archaeological areal poses complex problems that do not have any parallels at other sites. Suitable heritage care is being developed by a specialized department of the Institute of Archaeology of the Academy of Sciences of the Czech Republic, v. v. i., contracted by the Office of the President of the Republic.

Presently, a research project „Lime materials for restoration and conservation of authentic elements of historic structures” is being conducted to identify the most appropriate heritage management approach for the uniquely preserved archaeological areal. Within this project, a 3D map of the archaeological areal appended with a geo-informatic database is being created, documenting authentic versus reconstructed elements of the medieval buildings. The map will help with future monitoring of the stability of the exposed archaeological features. Another aim of the project is to evaluate the past conservation methods used and develop functional and applicable mortar mixtures for future repairs. The full project specification and its preliminary results are the subjects of the proposed poster.