

GLASGOW PUBLIC LECTURE SERIES

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Documenting the Built Environment:

Using lasers to 3-dimensionally scan the Cologne Cathedral World Heritage Site

Dr Douglas Pritchard (Heriot Watt University)

Thursday November 19th 2015, 7.30pm

Room 222, School of Physics and Astronomy University of Glasgow

International heritage sites face a variety of manmade threats, from global warming and air pollution to urban encroachment and the pressures of increased tourism. The recent iconoclastic destruction of Palmyra or the vandalism of historic religious monuments in Iraq are an immense loss to the region as well as to the international community. Unfortunately, the Middle East is not alone with this problem, looting and intentional damage of universally valued cultural heritage is a significant global problem.



In light of these concerns, there is a critical need for techniques and systems that can effectively digitally preserve monuments and sites before they are irretrievably damaged or destroyed. Using previous projects at Durham Cathedral and Cologne Cathedral as case-studies, the presentation will focus on the use of highly precise documentation systems such as the terrestrial laser scanner and custom-designed rigs, to precisely capture complex architecture forms a virtually preserve them for future generations.



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environments. The foundation of the work utilises sub-millimetre, terrestrial and longrange 3D scanning systems to generate highly precise 3D datasets. Douglas has initiated and developed numerous UK and international 3D documentation projects and in October, he completed a large project at the Cologne Cathedral World Heritage site.

Douglas Pritchard is an Associate Professor at Heriot-Watt University Edinburgh and an Honorary Research Fellow at the University of Glasgow. His area of expertise is in the use of 3D-based documentation and VR systems to 'digitally capture' architectural and natural

How to find us

The School of Physics and Astronomy is in the Kelvin Building, on the main University Campus. Pedestrians can enter the Campus via the Main Gate or the Botany Gate. Parking is available in University Place or (via Main Gate entry to Campus) around the Kelvin Building itself.

More travel information can be found via the link on our website: http://www.tinyurl.com/glasgow-iop/

