Half Day Seminar - Application of Developments in BIM to Geotechnics

Thursday November 3rd 2016

Engineers Ireland
Clyde Road, Dublin 4

Admission – Free Entry

Programme

2.00pm Welcome – David Gill Chartered Engineer, AGL Consulting and Chairman of GSI

2.15pm Europe public sector aims for world class construction sector
Dr Ilka May - Associate Director, Arup

3.00pm Questions and Answers

3.20pm Tea/Coffee Break

3.40pm The present and future of BIM in Ireland
Aonghus O’Keeffe Chartered Engineer – Associate, Roughan & Donovan

4.10pm Questions and Answers

4.20pm The use of BIM for Earthworks – a case study
Andy Wilkins – Associate Director, ByrneLooby

4.50pm Questions and Answers

5.00pm Seminar Close

Disclaimer: Any views or opinions expressed on any matters by the presenters or participants during or in connection with any presentation are solely the views of the authors of the respective comments and/or opinions and must not be taken to be the views of Engineers Ireland or the Geotechnical Society of Ireland or any other organisation. Engineers Ireland and the GSI make no representations, warranties or assurances concerning any information provided in these presentations and accept no responsibility for the content and/or accuracy.
Europe Public Sector Aims for World Class Construction Sector
Dr Ilka May (Arup)

Speaker: Dr Ilka May, Associate Director at Arup, is a senior consultant with more than fifteen years’ experience working with spatial technology and data. She has worked with major clients on a range of prestigious projects, including London Olympics, Crossrail, Network Rail and Deutsche Bahn. In 2015 Ilka was appointed as interim chairwoman of the newly formed German initiative planen-bauen 4.0. In this role she led the development of a strategic BIM road map for Germany and was appointed as a consultant to the EU BIM Group in Brussels.

Abstract: The economic benefits of digitalisation are well recognised. The wider use of technology, digital processes, automation and higher-skilled workers contribute greatly to Europe’s economic, social and environmental future. The European construction sector is undergoing its own digital revolution: Building Information Modelling (BIM) represents the construction sector’s moment of digitalisation. Since February 2016 Europe is host to the greatest regional concentration of government-led BIM programmes in the world. A newly formed “EU BIM Task Group”, co-funded by the European Commission, has over 20 European member states with representatives of public procurers, public building and infrastructure owners and policy makers. It aims to bring together these national efforts into a common and aligned European approach to develop a world-class digital construction sector. One of the challenges is the diversity of the sector and, for clients and suppliers alike, the question of how to apply the BIM principles to their discipline. The talk will focus on examples from geotechnics and tunnelling.
Lecture Details

The Present and Future of BIM in Ireland
Aonghus O'Keeffe Chartered Engineer (Roughan & Donovan)

**Speaker:** Aonghus O'Keeffe is an Associate at Roughan & O'Donovan and has over 12 years' experience on a wide range of civil and structural engineering projects. He leads the implementation of BIM in ROD and is an active member of industry BIM committees. Aonghus is currently leading ROD's contribution to cutting-edge European research into the use of BIM for asset management of road infrastructure on the CEDR INTERLINK project.

**Abstract:** Aonghus will provide an insight into current BIM maturity in Ireland and likely developments over the coming years. An overview of CEDR INTERLINK, a two-year research project looking at the use of BIM for asset management of European road infrastructure will also be presented.
Lecture Details

The Use of BIM for Earthworks – A Case Study
Andy Wilkins (ByrneLooby)

Speaker: Andy is an Associate Director with ByrneLooby and manages the Galway office in Ireland. Andy has lead design teams on various projects, including Aqaba Port in Jordan, the King Abdulaziz International Airport GSE Tunnel in Jeddah, Saudi Arabia and the Naval Jetty at the port on Umm Qasr in Iraq. He has also presented on "The Role of Geotechnical Temporary Works on Infrastructure Construction in Ireland" at the Geotechnics on Irish Roads, 2000 - 2010 Conference.

Abstract: Andy will present a case study on the practical application of the BIM process on a recent infrastructure project in Ireland. This will include a brief description of the systems, processes and tools used to gain a rapid understanding of the ground conditions along a 40km route corridor and how this information can be manipulated within the BIM process to develop detailed breakdowns of the types and quantities of earthworks materials. This allows ground conditions to be more comprehensively assessed and a greater degree of confidence be reached in the assessment of ground risk. His presentation will include a description of how this information can be visualised both in conventional plan and section, and in 3D representation.