

APS BIM FOR HEALTH AND SAFETY CONFERENCE

16TH SEPTEMBER 2015

THE BUILDING CENTRE, STORE STREET, LONDON, WC1E 7BT



This conference will provide an invaluable industry update on the current BIM implementation and its benefits to managing health and safety within the UK construction industry. Delegates will have the opportunity to hear how industry is currently transforming itself, current practices, implementation and how future developments in technology will help drive improved health and safety in construction.

From leading BIM experts, regulators and real time project examples, delegates will gain a better understand of BIM for Health and Safety in the UK context, what it means for key industry stakeholders, where the industry is currently in its good practice and how the industry is deriving value. Delegates will also examine how the UK Government's commitment to BIM will progress beyond Level 2 and how the innovations and future trends in technology will drive the strategy forward.

The conference will outline current and future thinking, best practice principles, lessons learnt, and demonstrate value to health and safety risk management in construction from investing in BIM.

WHO SHOULD ATTEND?

Delegates who will have an interest in attending this conference will include Principal Designers, Architects, Engineers, Surveyors, Principal Contractors, Contractors, Consultants, Civil Engineers, Structural Engineers, Services Engineers, Facilities Managers, Procurement Officers, Project Managers, Construction Managers, Construction Health and Safety Specialists, BIM Leads, BIM Managers, BIM Coordinators, manufacturers and policy makers.

KEY ISSUES AND TOPICS TO BE EXPLORED:

- Understanding BIM and the UK context
- How the industry is adopting BIM
- CDM2015 and its impact on BIM
- Tackling coordination head on using BIM
- How value to H&S is derived through BIM
- What are the key issues relating to BIM and H&S coordination
- Digital lifecycle asset delivery and management
- Moving beyond BIM – innovation and construction technologies

Real time demonstration of future trends in H&S management

COST: £70.00
Inc VAT

PROGRAMME

- 0900 **Arrivals, Coffee, Registration**
- 0920 **Welcome and introduction to Chair**
Bobby Chakravarthy
President Elect APS
- 0930 **Chair's Perspective – UK BIM journey to date** David Frise
- 0945 **BIM4H&S: Coordinating change - a regulatory perspective**
Gordon Crick
- 1015 **ICE Project – Hybrid reality and body motion tracking for construction health and safety** Dr Frédéric Bosché and Dr Aparajithan Sivanathan
- 1030 **3D Repo – Web Browser Virtual Reality** Dr Jozef Doboš
- 1045 **Coffee break and VR Demos**
- 1115 **Enhancing Safety and CDM management through BIM - a contractor's perspective**
Scott Kerr
- 1145 **Collaborating in BIM environment – a Client and Designer's perspective**
Paul Lee and Peter Nicholas
- 1230 **Future of Health and Safety in Digital Construction Space** Neil Thompson
- 1300 **Chair's final remarks and VR Demos**
Lunch



Please book your place online here: www.regonline.co.uk/BIMConference2015

Scott Kerr



Scott is a Principal BIM Integrator with Balfour Beatty Construction Services. His primary focus is supporting and implementing Digital Engineering techniques/processes within the Construction Delivery side. Scott has over 35 years experience in Civil Engineering; initially with design consultancies and now on the construction side. Since 2005 he has developed a technical specialism in 4D BIM with onsite secondments at Heathrows T5, T3F projects and latterly the T2B project where he managed the 4D modelling and implementation that was used on site as a support tool for construction planning, delivery and logistics management.

Scott has a role on the UK Gov BIM for H and S Group and has actively input into the work of the Group with the sharing of knowledge/learnings of how 4D and Safety Simulation, centred in the Digital World, work can help support risk and safety management on site.

Gordon Crick



Gordon Crick joined HSE as an Agricultural Inspector in 1992, after working for some years as a pig farmer, and then operating a small contracting business in construction. Since 1999 Gordon has worked as a Construction Inspector, moving to the Construction Sector in 2004. Gordon has championed worker involvement and leadership in the Construction Sector and most recently was part of the Team which developed the CDM 2015 Regulations. Having taken on the role of chairing the BIM 4 Health and Safety Working Group, early this year, Gordon sees exciting potential to improve health and safety by applying new technologies in design and construction management.

Peter Nicholas



Peter is Associate Director Energy, at ARUP H&S and a CDM Specialist. He provides expertise in H&S and Risk mitigation through planning, design and management, particularly on hazard projects. Has a wide range of knowledge and experience across various engineering and construction disciplines. Has developed several innovative BIM related practices to release the full benefits of BIM in practice. Supporting an international blue chip company in their evolving BIM process on matters of H&S and risk mitigation. Providing input into the BIM4Regs initiative.

Frédéric Bosché



Dr. Frédéric Bosché is an international graduate and researcher, having worked and studied in 5 different countries over the last 15 years, in institutions like the École Centrale de Lille (France), Bouygues Construction (France), the University of Texas at Austin (USA), the University of Waterloo (Canada), and ETH Zurich (Switzerland). Since 2011, Frédéric is a Lecturer within the School of Energy, Geoscience, Infrastructure and Society (formally School of Built Environment) at Heriot-Watt University. He is a fellow of the UK Higher Education Academy.

Frédéric leads the CyberBuild laboratory (web.sbe.hw.ac.uk/fbosche/) and has been involved in several research projects (FEC >£1 million) in the field of 2D and 3D data analysis with application in the AEC sector and beyond. He has about 60 publications in international peer-reviewed academic and professional journals, with his main fields of contribution including: automated analysis of 3D reality capture data of construction jobsites; image-based 3D reconstruction for urban and Cultural Heritage modelling (EU FP7 3D-COFORM and V-City projects); immersive Mixed Reality for construction; and motion tracking technology for construction Health & Safety.

Dr Aparajithan Sivanathan



Siva is a Research Associate working on the ICE project, more specifically responsible for developing the activity tracking and body area network system (AT-BAN). He has expertise in multimodal data capture and interactive systems. He holds an MSc in Mechatronics engineering and comes from a multidisciplinary background of mechanical, electronics and computing. Before joining the ICE project, he worked as a researcher in the Department of Mechanical Engineering, Heriot-watt University and as an R&D engineer in UK's electronics manufacturing industry. He holds a PhD in the field of ultra-precision time-phase recording methods for multimodal data capture and fusion of temporal artefacts. His current research focuses on real-time cyber physical systems and wireless body area networks.

Neil Thompson



Neil is a chartered construction manager (CIOB) and UK Head of Digital Research & Innovation at Balfour Beatty. His focus is on digitising supply chains and integrating academia with innovation to develop the next generation of construction technologies. He has over 10 years of experience in construction ranging from temporary works design to environmental design and implementing building information modelling for some of the country's largest constructors and design firms. Neil co-founded the CIC BIM2050 group which looks at the pathway of social, education and technological development leading up to 2050. They aim to build a platform for young industry professionals to accelerate the digitisation of the industry and support a sustainable future for the construction industry.

David Frise



David Frise is the chief executive of the Finishes and Interiors Sector FIS, representing the fit out and finishes industry.

FIS run the BIM4FitOut group which has recently launched a BIM toolkit for SMEs and is currently working with Innovate UK, Balfour Beatty and 3DRepo on a BID4Free project designed to make tendering quick, easy and low cost for contractors using BIM. He is also manages the BIM4BuildingServices group and is a non executive director of the Construction Products Association CPA.

A former nuclear submariner, he left the Royal Navy to become managing director of M S Frise & Cyna, a building services contractor and consultancy based in Wiltshire, and later set up Bailey Energy for N G Bailey.

Dr Jozef Doboš



Dr Jozef Doboš is the founder and CEO of 3D Repo Ltd (3drepo.org), a spin-out from his Engineering Doctorate in Virtual Environments, Imaging & Visualisation (VEIV) at University College London. In 2009, he received his Master of Engineering in Artificial Intelligence from Imperial College London and in 2011 a Master of Research in VEIV from UCL. With 3D Repo, Jozef won numerous awards including the MongoDB World Innovation Award in the open source category, the Breakthrough Information Technology Industrial Exchange Award and the UCL Enterprise Bright Ideas Award. In 2014, he was finalist of the Royal Academy of Engineering ERA Foundation Entrepreneurs Award as well as the EPSRC UK ICT Research Pioneers Award. Jozef is a Professional Member of the British Computer Society, the Chartered Institute for IT.

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