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**BIRMINGHAM CITY**  
University

**Presentations include:**



ASHRAE Distinguished Lecturer

**M. Dennis Knight**

PE FASHRAE

Whole Building Systems, LLC

Wednesday, 17 May 2017, 9:00 - 18:00

Millennium Point Auditorium, Curzon Street, Birmingham, B4 7XG, United Kingdom



## ASHRAE Distinguished Lecture & Advances in Simulation Tools

Date: Wednesday, 17 May 2017  
Venue: Millennium Point Auditorium  
Birmingham City University  
Curzon Street  
Birmingham  
B4 7XG (Map: <https://goo.gl/Mqor6E>)  
Admission: £15 (standard)  
£5 (student)  
free (ASHRAE members)  
Book your tickets at: <https://goo.gl/vvdLBJ>  
Contact: [ashrae.ukml@gmail.com](mailto:ashrae.ukml@gmail.com)

### Programme (draft)

09:00 - 09:30	Registration and refreshments
09:30 - 10:15	<b>The Latest Advances in Sefaira</b> <i>Sefaira UK Ltd</i>
10:15 - 11:00	<b>The Latest Advances in AECOSim/Hevacomp</b> <i>Bentley Systems International Ltd</i>
11:00 - 11:30	Coffee break
11:30 - 12:15	<b>The Latest Advances in IES VE</b> <i>Integrated Environmental Solutions Ltd</i>
12:15 - 13:00	<b>The Latest Advances in IDA ICE</b> <i>EQUA Simulation AB</i>
13:00 - 14:00	Lunch
14:00 - 14:45	<b>The Latest Advances in DesignBuilder</b> <i>DesignBuilder Software Ltd</i>
14:45 - 15:30	<b>The Latest Advances in BIM HVACTool</b> <i>Tian Building Engineering UG</i>
15:30 - 16:00	Coffee break
16:00 - 16:45	<b>The Latest Advances in JEA Optimisation Engine</b> <i>Energy Simulation Solutions Ltd</i>
16:45 - 17:45	<b>ASHRAE Distinguished Lecture: Integrated Building Design and Building Information</b> <i>Dennis Knight, Whole Building Systems LLC</i>
17:45 - 18:00	Closing remarks

**16:45 - 17:45**

## **ASHRAE Distinguished Lecture** **Integrated Building Design and Building Information**

M. Dennis Knight, ASHRAE Distinguished Lecturer  
Whole Building Systems, LLC

Mr. Knight's lecture will focus on the Integrated Building Design (IBD) process and Building Information Modeling (BIM) tools applied to the Project Delivery processes including team building, project management, stakeholder responsibilities, early collaboration, better decision making, documentation methods and the use of technologies like BIM to improve the built environment. The presentation will provide brief introductions to ASHRAE Applications Handbook Chapter 57, "Integrated Building Design," the ASHRAE "Introduction to BIM" publication, and the newly released NIBS National BIM Guide for Owners (NBGO) and will discuss how leveraging the power of BIM and simulation tools for early phase design analysis, and how to apply these tools and processes to help design, construct, operate and maintain better buildings. Mr. Knight will also briefly discuss the upcoming 2017 ASHRAE Building Performance Analysis specialty conference (formerly the Energy Modeling Conference) and touch on some lessons learned from the previous 5 conferences.

**M. Dennis Knight, PE, FASHRAE**  
Whole Building Systems, LLC

Mr. M. Dennis Knight has 43 years of experience providing engineering, design and construction related services within the building industry. Active at the local, state and national levels with various agencies and professional societies, he works to help develop sustainable, integrated building design, building performance simulation and building information modeling guidelines. As a member of ASHRAE, Mr. Knight is the immediate past Chairman of the BIM Multi-disciplinary Task Group (MTG) and is the former Chair of Technical Committee (TC) 7.1 "Integrated Building Design." He currently serves on the ASHRAE Board of Directors as a Director at Large and as the vice-chair of the buildingSMART Alliance (bSa) Board of



Directors. In addition, he has served on ASHRAE Standards Committee and serves as the Chair of the ASHRAE 2017 Building Performance Analysis Specialty Conference. Mr. Knight is a co-author of the National BIM Guide for Owners that was published by the National Institute of Building Sciences (NIBS). The work was awarded the 2017 NIBS Honor Award in January 2017.

Professionally Dennis is a practicing engineer and the founder and an owner of Charleston, SC based Whole Building Systems, LLC, offering consulting engineering, commissioning and design assistance services to the AECO industry. His vision for Whole Building Systems is to assist owners, architects, contractors and facility management professionals to adopt new tools and process improvement strategies that will result in the design, construction, operations and maintenance of high performance building that meet the triple bottom line. Mr. Knight frequently lectures in the US and abroad on high performance building tools and technology and has authored numerous publications and white papers on a variety of technical topics. He has developed curriculum and teaches on BIM, Integrated Building Design, Life Cycle Cost Analysis, ASHRAE 90.1 and IECC energy code compliance, energy management for historic structures in hot and humid climates, and energy modeling and commissioning of energy using systems.

This Lecture is brought to you by the ***American Society of Heating, Refrigerating and Air-Conditioning Engineers***. Founded in 1894, ASHRAE is a global society advancing human well-being through sustainable technology for the built environment. The Society and its more than 55,000 members worldwide focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today. More information can be found at [www.ashrae.org/news](http://www.ashrae.org/news).

