



# Healthcare Estates<sup>®</sup>

Conference. Exhibition. Hybrid.



## HOSPITALS OF THE FUTURE

Monday 18 October

### DIGITAL CONFERENCE

09:00-09:30 Welcome from Pete Sellars, Chief Executive Officer, IHEEM

09:30-10:00 Online Exhibition & Digital Networking

#### Keynote Address

Chaired by Pete Sellars, IHEEM CEO

**10:00-10:30** An Introduction to the New Hospital Programme's Commercial Philosophy

Emma-Jane Houghton, Commercial Director, New Hospital Programme

**10:30-11:00** In Conversation with David Flory, CBE, Designate Chair, Lancashire and South Cumbria ICS, Interim Chair, Cheshire and Merseyside ICS

#### Strategy

**11:05-11:45** Wolfson Economic Prize 2021

Robert Ede, Policy Exchange  
Head of Health & Social Care/Prize Director

#### Design & Construction

**11:05-11:45**  
TBC

#### System Governance

**11:05-11:45** Do We Know Which Hospital to Build and Why We're Doing it?

Stephen Wright, Independent Economic Consultant, Honorary Professor, University College London

#### Sustainability

**11:05-11:45** Achieving Net Zero Carbon, Lessons Learnt from Trusts Leading the Way Using the Public Sector Decarbonisation Scheme

Terry Hull, Strategic Asset Services Director, GMS; Stew Watson, Head of Estates Development, The Royal Wolverhampton NHS Trust; Stephen Lowndes, Technical Director, Carbon & Energy Fund

11:45-12:15 Online Exhibition & Digital Networking

**12:15-12:55** Primary Care Estates Challenges

David Gratrix Projects Director, Castle Gate Projects Ltd

**12:15-12:55** Maintaining Quality Through Design & Construction - Approach to Quality Monitoring and Assurance

Richard Beattie, Principal Mechanical Engineer, AECOM

**12:15-12:55** TBA

TBC

**12:15-12:55** Decarbonising the NHS

Sameen Khan, Salix Finance

**13:00** Why System Wide Infrastructure Planning is Essential to Deliver an Efficient and Sustainable Health System

Nicola Theron, Director of Estates, North Central London, ICS; Ian Sabini, Managing Consultant, Gbp partnerships Consult

**13:00** The Revised HTM 03-01 Specialised Ventilation for Healthcare Premises & HBN 06 Imaging and HBN 11 Primary Care

Malcolm Thomas, Malcolm Thomas Consultancy

**13:00** The Roadmap to a Net Zero Hospital

David Evans, Schneider Electric

13:00-13:40 Online Exhibition & Digital Networking

**14:00-14:40** 'Our Homes Within A Park' - Proactive Delivery of the Health and Wellbeing Agenda in partnership with Alder Hey Children's NHS Foundation Trust

Harinder Dhaliwal, CEO, Step Places; Louise Shepherd, Alder Hey Chief Executive Officer

**14:00-14:40** Principles of Design for Ergonomic Pendant Solutions for Minimally Invasive Surgery and Shorter Recovery Times in Intensive Care Units

Scott Pickering, Brandon Medical

**14:00-14:40** Fire Safety Management Competency

Andrew Foolkes, Tenos Ltd

**14:00-14:40** Addressing the Challenge to Becoming Net Zero

Gail Scholes, Head of Public Sector and Housing, Zenengi

**14:40-15:20** Redeveloping Land for Financial, Strategic and Environmental Gain

Mark Trumper, London Northwest University Healthcare NHS Trust

**14:40-15:20** Let's Not Forget Those Who Forget! What Individuals With Dementia Think of The Design of Their Living Environment?

Loukia Minetou, PhD Student; Dr Evangelia Chrysikou; Dr Niamh Murtagh, Bartlett School of Construction and Project Management UCL

**14:40-15:20** How to Optimise a Hospital's Maintenance and Operations

Paul Armstrong, Schneider Electric

**14:40-15:20** Meeting the NHS Net Zero 2040 Challenge

Paul Graham, Kingston Hospital NHS Trust; Julian Miller, Ameresco Ltd

**15:20-16:00** Producing an Approvable NHS Business Case in a Dynamic Policy Environment

Helen Pickering, Senior Director, Currie & Brown

**15:20-16:00** Designing Mental Healthcare Settings to Prioritise Access to Outdoor Space: The Benefits for Wellbeing

Ruairi Reeves, Medical Architecture

**15:20-16:00** From Conception to Completion in 12 months - Modern Methods of Construction in Healthcare

Sarah Wallwork, WSP

**15:20-16:00** The Greenest Health Building in the UK

Eugene Prinsloo; Jamie Andrews, Community Health Partnerships

16:00-16:30 Online Exhibition & Digital Networking

**16:30-17:10**  
TBC

**16:30-17:10** Delivering on The Potential of Modern Methods of Construction (MMC) Approaches For The Health Estate

Rob Ewen, K2 Consultancy

**16:30-17:10** Decarbonising Healthcare - Delivering NHS Net Zero Ambitions

Richard McWilliams, Turner & Townsend



# INFRASTRUCTURE & FUTURE RESILIENCE

Tuesday 19 October

## DIGITAL CONFERENCE

## LIVE EXHIBITION

09:30-10:00 Exhibition/Platform Visit/Networking

### Keynote Address

**10:00-11:00** Preparing for and dealing with the unexpected

Scott Hislop, Programme Delivery NHSX & David Fassam, National Investigator Healthcare Safety Investigation Branch (HSIB)

### Operational Management

**11:05-11:45** How the Use of Platform-Based Approaches Help Deliver Net Zero Carbon Community Buildings at an Affordable Scale

Anastasia Chrysafi, Tim Carey, Willmot Dixon

### Infrastructure Resilience

**11:05-11:45** NHS Scotland Assure

Eddie McLaughlan, Assistant Director, Engineering, Environment and Decontamination at NHS National Services Scotland

### Covid19 Lessons Learnt

**11:05-11:45** The Emergency Department's Response to COVID19: How Reactive Changes in Flow and Communications Has Reshaped Our Vision for Future A&E Designs

Jon Huddy, Huddy Healthcare Solutions; Duncan Sissons, Sissons Consult Ltd

### Future Requirements

**11:05-11:45**

TBC

11:45-12:15 Exhibition/Digital Platform Visit/Networking

**12:15-12:55** Finding the True Value in Your BMS

John Dorward, Honeywell – Trend

**12:15-12:55** Deliver Site Cost Savings & Improve Power Efficiency With One Power Monitoring System

Richard Govier, Socomec UK Ltd

**12:15-12:55** Healthcare Provision in a Pandemic

Karina Jones, Eta Projects

**12:15-12:55** Delivering New Hospitals Fit for an Uncertain Future

Martina Cardi, Bryden Wood

**13:00-13:40** Protecting IOT Communication of Emergency Lighting in Healthcare Premises

Alan Daniels, P4

**13:00-13:40** Principles of Insulating Monitoring Devices in Hospital Medical IT Systems

Matthew Mears, Bender UK

**13:00-13:40** COVID19 Compliant Facility at New Cross Hospital

Simon Bourke, RPS Group

**13:00-13:40** Procurement, Policy and Standards: How Do We Build What We Actually Need?

Robbie Blackhurst, Procure Partnerships; Michelle Humphreys, Director of Strategic Projects, Manchester University NHS Foundation Trust; Steve Bentley, Mott Macdonald; Conor Ellis, Archus  
Chaired by: Gareth Banks

13:00-13:40 Exhibition/Digital Platform Visit/Networking

**14:00-14:40** Good Food, Good Health  
NHS Food Review / National Food Standards & Strategy

Phil Shelley, Senior Operational & Policy Manager – Soft FM & Emma Brookes, Head of Soft FM Strategy & Operations, NHS Estates & Facilities, Commercial Directorate

**14:00-14:40** Neutral Earthing and Fault Clearance With UPS Systems

Alex Emms, Kohler Uninterruptible Power

**14:00-14:40** Delivering Meaningful Care for the Elderly During a Pandemic // St Helens and Knowsley Hospitals NHS Trust in Partnership With Portakabin

Victoria Phillips, Portakabin

**14:00-14:40** Challenging Hospital Planners and Designers to Early Integrate the Specialist Engineering and Manufacturing Supply Chain

Prof Grant Mills, Professor of Healthcare Infrastructure Delivery & Dr Anne Symons, Senior Research Fellow in Healthcare Design and Raed Ashour, Researcher, The Bartlett School of Sustainable Construction

**14:40-15:20** Promoting Healthy Eating in Hospital/Ward Catering  
Sue Brown, Associate Development Director; David Houghton Senior Project Manager, Alder Hey Childrens NHSFT

**14:40-15:20** Design Considerations for the Modern Operating Theatre: Supporting the implementation of UHD Medical Video, Audio and AI capability

Richard McAuley, Brandon Medical

**14:40-15:20** Ventilation systems in Hospitals and Covid -19. What did we learn from the Pandemic?

Ben Ledger, Overclean Ltd

**14:40-15:20** COVID & Healthcare Integration

Smriti Singh, Arcadis

**15:20-16:00** Chillers & Heat Pumps in Healthcare Premises

Sigrid Volkmann, STS

**15:20-16:00** Battery Storage Installations for Hospitals

Bill Reeves, Eta Projects

**15:20-16:00** COVID Safe Re-Opening Case Study

Frank Mills, Frank Mills Consultancy

**15:20-16:00** Providing a Safe Environment for Operating on Non-Infectious and Infectious patients

Richard Knight, Richard Knight Consultancy Ltd

16:00-16:30 Exhibition/Digital Platform Visit/Networking

**16:30-17:10** Storage of Energy for Low Temperature Hot Water, Domestic Hot Water and Sterilisation in the Healthcare industry

Spirax Sarco

**16:30-17:10** The Knowledge of Power - BMS Optimisation

Stewart Royle; Martin Norris, Saker Controls Ltd

**16:30-17:10** "PROTECT" – COVID-19 National Core Study

Professor Catherine Noakes, OBE, FIMechE, FIHEEM, Professor of Environmental Engineering for Buildings, University of Leeds

**16:30-17:10** Technology to capture, extract and purify waste anaesthetic gases

Dr Matt Gopal, Head of Clinical Engagement, SageTech Medical Equipment Ltd

18:15-19:30 Drinks Reception within the Exhibition Hall & Virtual Awards



# SCIENCE & INNOVATION

Wednesday 20 October

## DIGITAL CONFERENCE

## LIVE EXHIBITION

09:30-10:00 Exhibition/Platform Visit/Networking

### Keynote Address

#### 10:00-11:00 Panel Discussion: Infection Resilience Environments

Chaired by Paul Fenton MBE, IHEEM President

Professor Catherine Noakes, OBE, FIMechE, FIHEEM, Professor of Environmental Engineering for Buildings, University of Leeds

Dr Shaun Fitzgerald, Dr Shaun Fitzgerald OBE FREng, Director, Centre for Climate Repair at Cambridge

Prof Peter Guthrie, Professor of Engineering for Sustainable Development, Department of Engineering, University of Cambridge

Andrew Poplett IEng MIHEEM Chair of IHEEM Ventilation Technical Platform

### Research

#### 11:05-11:45 Innovation in the New Alder Hey Childrens Hospital

Louise Shepherd CEO; David Powell Development Director, Alder Hey Childrens NHSFT

### New Technologies

#### 11:05-11:45 The Future of Diagnostics with Facible's Quantum-Logic Aptamer Analyte Detection

Dr Steven Burden, Founder & CEO Facible

### Case Studies

#### 11:05-11:45 "Wayfinding+" The Art of Better Orientation

Martin Jones, Art in Site

### IHEEM Technical Platforms

#### 11:05-11:45 HTM 03-01 (2021) - Update and Overview of Major Changes

Andrew Poplett, IEng, MIHEEM ACIBSE IHEEM Ventilation Technical Platform, Chair

11:45-12:15 Exhibition/Digital Platform Visit/Networking

#### 12:15-12:55 User-Led, Innovative Healthcare Building Design

Rachel Beverley-Stevenson, OneMedical Property

#### 12:15-12:55 Big Savings, Greater Efficiency, Optimised Care: Building Intelligence Platforms will Transform Hospitals

Rob Faro & Chris Evans, Tolarke

#### 12:15-12:55 Creating Community Spaces for Patient Wellbeing

Alison Davies & Paul Cross NHS Property Services

#### 12:15-12:55 How resilient is your Zero Carbon Electrical infrastructure?

Eugene Conroy, IHEEM Electrical Technical Platform, Member

#### 13:00-13:40 Safe Sustainable Operating Theatre Design in a Modern NHS

Rabiya Zia, University of Cambridge

#### 13:00-13:40 Smart Touches To Achieve A Touch Free Environment

GEZE UK

#### 13:00-13:40 Virtually Healthy: How Digital Transformation is changing the design of healthcare environments

Claire Liddy, Managing Director of Innovation, Alder Hey Children's NHS Foundation Trust  
Chair: Paul Gilligan

#### 13:00-13:40 IHEEM Fire Technical Platform

Stephen Ball, MSc, IHEEM Fire Safety Technical Platform, Member

13:40-14:00 Exhibition/Digital Platform Visit/Networking

#### 14:00-14:40 Decision Tools for Improving Energy and Environmental Performance of Hospital Energy Systems

Muditha Abeysekera, Cardiff University

#### 14:00-14:40 TBA

TBC

#### 14:00-14:40 Spatial Analytics - The Evolution of Space in the NHS

Ken Gordon & Dr Andrew Dobbins, Micad

#### 14:00-14:40 TBA

TBC

#### 14:40-15:20 Physical Control of Microbiologically Contaminated Water in Healthcare Facilities

Elema Tuccori, Pall

#### 14:40-15:20 Pharmafilter A Cleaner Hospital, A Healthier Environment where Health, Green and Clean-Tech Merge

Peter Kelly, Pharmafilter

#### 15:20-16:00 Transforming Community Health Services Whilst Retaining Services on Site

Matt Tebbatt, One Creative Environments & Mark Jones, ADO Strategic Estates & Capital Planning, South Warwickshire NHS Foundation Trust

#### 14:40-15:20 TBC

TBC

#### 15:20-16:00 Application of HVAC Air Filtration to Minimize Airborne Infection Risk

Peter Dymont, Camfil

#### 15:20-16:00 UVC Light Based Technology Solutions for Better Healthcare Premise

Rasib Khan, 3H Technologies Ltd

#### 15:20-16:00 TBC

TBC

16:00-16:30 Exhibition/Digital Platform Visit/Networking

#### 16:30-17:10 Making the Invisible, Visible - Airborne Particle Monitoring and Control Systems Integration with Ventilation Canopies for Improved Infection Control and Higher Patient and Staff Safety

Scott Pickering, Brandon Medical

#### 16:30-17:10 Wireless Bluetooth Mesh Lighting controls in Big Projects

Stephen Jackson, Casambi Technologies Oy

#### 16:30-17:10 The Digital Hospital Experience

David Evans, Schneider Electric

#### 16:30-17:10 IHEEM ADBE Technical Platform



# WORKFORCE

Thursday 21 October

## DIGITAL CONFERENCE

09:30-10:00 Online Exhibition & Digital Networking

### Keynote Address

**10:00-11:00 Fighting with Pride: The LGBT+ Military Charity**  
*Craig Jones and Caroline Paige, CEO's, Fighting With Pride*

#### Looking After Our People

**11:05-11:45 The Faraday Challenge and How IET are supporting STEM education programmes**  
*David Lakin, Head of Education, Safeguarding & Education Policy, IET, Chaired by Paul Fenton MBE, IHEEM President*

#### Belonging

**11:05-11:45**  
*Louise Clark, Deputy Director of EFM, Guys and St Thomas TBC*

#### New Ways Of Working

**11:05-11:45**  
*TBC*

#### Growing For The Future

**11:05-11:35**  
*TAHPI, IHEEM Knowledge Partner*

**11:35-12:05**  
*Asset Wisdom, IHEEM Knowledge Partner*

11:45-12:15 Online Exhibition & Digital Networking

**12:15-12:55 Career Map**  
*Monira Kaauech, Project Support Officer, IHEEM*

**12:15-12:55**  
*Nick Groves, University Hospitals Sussex, TBC*

**12:15-12:55 -12:55 Methods and Predictive Models to Stress-test Hospital-wide Medical Planning Solutions for High Performance**  
*Jon Huddy & David White*

**13:00-13:30**  
*PPL Training, IHEEM Knowledge Partner*

**13:00-13:40 MyIHEEM CPD**  
*Tania Davies, Chief Operating Officer, IHEEM*

**13:00-13:40 InterEngineering and how this inspired the focus on Masculinity in Engineering**  
*Dr Mark McBride-Wright, CEng MChemE, Founder & Managing Director, EqualEngineers*

**13:00-13:40 Engagement on the Edge: Design team lessons learned from a pandemic.**  
*Chris Thornton, ADP, Chair: Paul Gilligan*

**13:35-14:05**  
*Eta Projects, IHEEM Knowledge Partner*

13:40-14:00 Online Exhibition & Digital Networking

**14:00-14:40 National Apprentice Programme**  
*Eileen M Bayles, Regional Training & Development Manager, Northern & Yorkshire NHS Assessment Centre; Simon Dennis, Commercial Manager, Salisbury Procurement Hub*

**14:00-14:40 TBA**  
*Mermaids Charity, TBC*

**14:00-14:40 "Lightworks": Combining Artwork With Lighting to Combat the Clinical Dark Age**  
*Louisa Williams, Art in Site*

**14:05-14:35**  
*Spirax Sarco, IHEEM Knowledge Partner*

**14:40-15:20**  
*TBC*

**14:40-15:20 Fighting with Pride Panel Discussion**  
*Gareth Longley, Chair of Manchester Spartans, TBC*

**14:35-15:05**  
*Immerse Training, IHEEM Knowledge Partner*

**15:30-16:00**  
*SFG20, IHEEM Knowledge Partner*

16:00-16:30 Online Exhibition & Digital Networking

**16:00-16:30**  
*Dudley IOT, IHEEM Knowledge Partner*

# INTERNATIONAL PERSPECTIVE

Friday 22 October

## DIGITAL CONFERENCE

### Healthcare Provision, Operation and Management

09:00-10:00 Online Exhibition & Digital Networking

12:05-13:00 Online Exhibition & Digital Networking

**10:00-11:00 International Federation of Healthcare Engineering Update**  
*TBC*

**11:05-12:05 How to Increase the Safety of Medical Personnel in a Hospital - Protective Airflow Solution**  
*Isma Grönval, Halton*

**13:00-14:00**  
*TBC*

**15:05-15:30 Infrastructure Climate Change Action**  
*Peter Smyth, Assistant National Director Capital & Estates; Bill O'Reilly, Estates Manager, Connolly Hospital, Health Service Executive*

**14:05-15:05 Parkhjørnet - A Fully Automated Centralized Sterile Services Building at Haukeland Hospital in Bergen**  
*Thomas Leitner, Rambøll Denmark*

**15:30-16:30**  
*TBC*

16:35-17:35 Conference Closing Remarks - Paul Fenton MBE, IHEEM President

*\*Please note that this Conference Programme is subject to change*