

# HOSPITALS OF THE FUTURE

Monday 18 October

#### **DIGITAL CONFERENCE**

09:00-09:30 Welcome from Pete Sellars, Chief Executive Officer & Paul Fenton MBE, President, IHEEM

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

#### Keynote Address

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 Economics

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

#### **Design & Construction**

#### 11:05-11:45 Digital Challenges for the Healthcare Estate

Steve Batson, Stephen George; Graeme Hall, Executive Chairman, Brandon Medical, Chaired by Jonathan Stewart, National Chair. HFFMA

#### **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

Director, GHIST, Stew Watson, Heda of Estates Development, The Royal Wolverhampton NHS Trust; Stephen Lowndes, Technical Director, Carbon & Energy Fund. Chaired by Andrew Chatten, Director of Estates & Facilities, Nottingham University Hospital

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

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

David Gratrix, Projects Director, Castle Gate Projects Ltd

13:00-13:40 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, Gbpartnerships Consult

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

Richard Beattie, Senior Engineer, Health Facilities Scotland

#### 13:00-14:00 The Future of Healthcare Design

Jamie Bishop, Fleet Architects. Hannah Brewster, ADP. Chaired by Alice Green

#### 12:15-12:55 Defining an Improved Asset Management and Lifecycle Capability for the NHS

Keith Hamer - Managing Director Gloucestershire Managed Services

#### 13:00-13:40 The Revised HTM

03-01 Specialised Ventilation for Healthcare Premises & HBN 06 Imaging and HBN 11 Primary Care Malcolm Thomas, Main Author HTM03-01, Malcolm Thomas Consultancy 12:15-12:55 Decarbonising the NHS Sameen Khan, Saliax Finance

13:00-13:40 The Roadmap to a Net Zero Hospital

David Evans, Schneider Electric

#### 13:40-14:00 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

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

Mark Trumper, London Northwest University Healthcare NHS Trust

## 15:20-16:00 Producing an Approvable NHS Business Case in a Dynamic Policy Environment Helen Pickering, Senior Director, Currie & Brown; Martin Clark, Director of

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

Scott Pickering, Brandon Medical

## 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

15:20-16:00 Designing Mental Healthcare Settings to Prioritise Access to Outdoor Space: The Benefits for Wellbeing
Ruairi Reeves, Medical Architecture

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

Andrew Foolkes, Tenos Ltd

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

Paul Armstrona, Schneider Electric

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

Sarah Wallwork, Healthcare Planning Lead, Mott MacDonald

14:00-14:40 Addressing the Challenge to Becoming Net Zero Gail Scholes, Head of Public Sector and Housing, Zenergi

#### 14:40-15:20 Meeting the NHS Net Zero 2040 Challange

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

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

Eugene Prinsloo; Jamie Andrews, Community Health Patnerships

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

## 16:30-17:10 Future Healthcare Planning - Panel Discussion Jonathan Erskin, Executive Director,

Healthcare Advisory Service

EUHPN, 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, Steve Batson, Studio Director, Stephen George Partnership, Stephen Wright, Independent Economic Consultant, Honorary Professor, University College London. Chaired by Pete Sellars, CEO, IHEEM

16:30-17:10 Delivering on The Potential of Modern Methods of Construction (MMC) Approaches For The Health Estate Rob Ewen, K2 Consultancy

Ambitions Richard McWillians,

16:30-17:10 Decarbonising

Healthcare - Delivering NHS Net Zero

Turner & Townsend





INFRASTRUCTURE & FUTURE RESILIENCE

**Tuesday 19 October** 

**Future Requirements** 

**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). Chaired By Nigel Keery, Head of Estates Operations, Belfast Health and Social Care Trust

## **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, NHS National Services Scotland

## COVID-19 Lessons Learnt

11:05-11:45 The Emergency
Department's Response to COVID-19:
How Reactive Changes in Flow and
Communications has Reshaped Our
Vision for Future A&E Designs
Jon Huddy, Huddy Healthcare

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

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

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

John Dorward, Honeywell – Trend

13:00-13:40 Protecting IOT Communication of Emergency Lighting in Healthcare Premises Alan Daniels P4 12:15-12:55 Deliver Site Cost Savings & Improve Power Efficiency With One Power Monitoring System Richard Govier, Socomec UK Ltd

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

Matthew Mears, Bender UK

12:15-12:55 Healthcare Provision in a

Karina Jones, Eta Proiects

13:00-13:40 COVID-19 Compliant Facility at New Cross Hospital Simon Bourke. RPS Group 12:15-12:55 Delivering New Hospitals Fit for an Uncertain Future Martina Cardi, Bryden Wood

13:00-14:00 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

## 13:40-14:00 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

14:40-15:20 Promoting Healthy Eating in Hospital/Ward Catering

Sue Brown, Associate Development Director; David Houghton Senior Project Manager, Alder Hey Childrens NHSFT

15:20-16:00 Chillers & Heat Pumps in Healthcare Premesis Signid Volkmann, STS 14:00-14:40 Neutral Earthing and Fault Clearance With UPS Systems Alex Emms, Kohler Uninterruptible Power

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

Richard McAuley, Brandon Medical

**15:20-16:00** Battery Storage Installations for Hospitals Bill Reeves, Eta Projects

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

14:40-15:20 Ventilation Systems in Hospitals and COVID-19. What did we learn from the Pandemic? Ben Ledger, Overclean Ltd

15:20-16:00 COVID-19 Safe Re-Opening Case Study Frank Mills, Frank Mills Consultancy 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 & Raed Ashour, Researcher, The Bartlett School of Sustainable Construction

14:40-15:20 COVID-19 & Healthcare Integration

Smriti Singh, Arcadis

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, 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



# **SCIENCE & INNOVATION**



#### **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

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

Prof Peter Guthrie, Professor of Engineering for Sustainable Development, Department of Engineering, University of Cambridge  $Prof\ Catherine\ Noakes\ OBE, Professor\ of\ Environmental\ Engineering\ for\ Buildings,\ University\ of\ Leeds$ 

Andrew Poplett, 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 IHEEM Ventilation Technical Platform, HTM 03-01 (2021) - Update and Overview of Major Changes,

Andrew Poplett, 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

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

Rabiya Zia, University of Cambridge

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

Rob Faro & Chris Evans, Tclarke

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

Alison Davies & Paul Cross NHS Property Services

#### 13:00-14:00 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. Chaired by Paul Gilliaan

#### 12:15-12:55 IHEEM Electrical Technical Platform, How resilient is your Zero Carbon Electrical infrastructure?

Eugene Conroy, IHEEM Electrical Technical Platform Member

## 13:00-13:40 IHEEM Fire Safety 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

14:40-15:20 Physical Control of Microbiologically Contaminated Water in Healthcare Facilities Elema Tuccori, Pall

15:20-16:00 Application of HVAC Air Filtration to Minimize Airborne Infection Risk Peter Dyment, Camfil

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

Peter Kelly, Pharmafilter

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

Rasib Khan, 3H Technologies Ltd

14:00-14:40 Spatial Analytics - The Evolution of Space in the NHS Ken Gordon & Dr Andrew Dobbins,

Micad

#### 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

# 14:00-14:40 IHEEM Water Technical

Steve Mount, IHEEM Water Technical Platform Member

14:40-15:20 IHFFM Professional **Development Committee Update** Carl McKenzie

#### 15:20-16:00 IHEEM Decontamination Platform, JAG/IHEEM Audit Tool -An Evolving Partnership to Raise Standards

Brian Kirk, IHEEM Decontamination Technical Platform, Chair and John Prendergast, IHEEM Decontamination Technical Platform, Member

#### 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

All Healthcare Estates 2021 Conference Content has been approved as certified CPD through the CPD Certification Service



## 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. Guvs and St Thomas

#### **New Ways Of Working**

11:05-11:45 "Through the Looking Glass" - International Panel Discussion Implications of COVID-19 on the Wellbing of the Hospital & Health System Workforce.

Chaired by Jonathan Erskine, Executive Director, EUHPN

#### **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 Kaouech, Project Support Officer, IHEEM

13:00-13:40 MyIHEEM CPD

Tania Davies, Chief Operating Officer, IHEEM

#### 12:15-12:55

Nick Groves, University Hospitals Sussex

13:00-13:40 InterEngineering and How This Inspired the Focus on Masculinity in Engineering Dr Mark McBride-Wright, Founder & Managing Director, EqualEngineers 12:15-12:55 Methods and Predictive Models to Stress-test Hospital-wide Medical Planning Solutions for High Performance

Jon Huddy & David White

13:00-14:00 Engagement on the Edge: Design team lessons learned from a pandemic.
Chris Thomton, ADP,
Chaired by Paul Gilligan

13:00-13:30

PPL Training, IHEEM Knowledge
Partner

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

14:40-15:20 Up-skilling the NHS Estates and Facilities Workforce; the Facilities Management Apprenticeship degree' Dr Peter Farrell, Programme Lead, University of Bolton & Lucy Rowe, National Diversity and Young Persons Lead for NHSE&I 14:00-14:40 Mermaids Charity

Mermaids Charity

14:40-15:20 Fighting with Pride Panel

Gareth Longley, Chair of Manchester Spartans

**15:20-16:00** Gareth Longley, Chair of Manchester Spartans

14:00-14:40 "Lightworks": Combining Artwork With Lighting to Combat the Clinical Dark Age

Louisa Williams, Art in Site

**14:40-15:20** Lessons from the Pandemic for the Next Generation of Hospitals Paul Fenton MBE, Associate Director

Paul Fenton MBE, Associate Director of Estates & Facilities East Suffolk & North Essex NHSFT, Duane Passman, Acute Redevelopment Programme Director, West Hertfordshire Hospitals NHS Trust, Kevin Oxley, Director of Estates, Facilities and Capital Planning, South Tees Hospitals NHSFT. Chaired by Nigel Edwards, Chief Executive, Nuffield Trust

14:05-14:35

Spirax Sarco, IHEEM Knowledge Partner

14:35-15:05

Immerse Training, IHEEM Knowledge Partner

15:30-16:00

SFG20, IHEEM Knowledge Partner

16:00-16:30

Dudley IOT, IHEEM Knowledge Partner

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

# 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 Update from International Federation of

Healthcare Engineering
Daniela Pedrini, IFHE President &
Darryl Pitcher, CEO Bethsalem Care &
Past IFHE President

11:05-12:05 How to Increase the Safety of Medical Personnel in a Hospital - Protective Airflow Solution Ismo Grönval, Halton 14:05-15:05 Parkhjørnet - A Fully Automated Centralized Sterile Services Building at Haukeland Hospital in Bergen

Thomas Leitner, Rambøll Denmark

**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

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

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