Healthcare is the biggest ‘industry’ in the world and the single largest component in the economies of many developed countries. It’s a voracious consumer of goods and services, producer of waste and generator of carbon. But if a physician’s primary obligation is to ‘do no harm’, we must accept that a population-based health system has responsibilities to planetary health that extend beyond care delivery.

A fundamental transformation in service models is required. This, in itself, carries significant risk because we know that prescriptive and top-down driven changes to complex systems have unintentional consequences, which are often more disruptive than the reform’s primary objectives.

Organised by Architects for Health and SALUS Global Knowledge Exchange, the 6th Annual European Healthcare Design 2020 Congress, Awards & Exhibition (8-10 June) provides a vibrant interdisciplinary global forum for whole-system thinking around redesigning health systems and infrastructure, bringing together clinicians, policy advisors, academics, architects, designers, economists and artists.

Redesigning healthcare systems

Redesigning networks at a whole-system level is critical. Emissions originating directly from healthcare facilities make up 17 per cent of the sector’s worldwide footprint, but 71 per cent of emissions is derived from the healthcare supply chain, including the production, transport, use and disposal of goods and services. The changes needed to improve environmental sustainability are much the same as those needed to deliver quality improvements and financial sustainability. Services need to be redesigned to shift care upstream and place greater emphasis on primary care, prevention and self-management.

Where are we making better use of digital technologies, developing more integrated forms of care, removing duplication and redundancy from care pathways, empowering patients, and moving care closer to home? Where are we mitigating the worldwide shortage of human resources by nurturing settled employment and career advancement in systems, and how can AI and digital technology supplement or replace human resource? How do we increase the resilience of services while reducing their impact on the environment?

Digital connectivity provides the structural framework that healthcare networks need to inform and empower staff and patients, and move them efficiently around the system. We also need to understand what advances have been made in AI, pharma, robotics and algorithmic diagnosis. Which of these are making a real contribution to sustaining health systems and which are illusory?

Wider frameworks

The ability of population-based healthcare systems to align to the UN’s Sustainable Development Goals and the Paris Agreement’s global climate goals, relies on a dynamic integration of health and social care with housing, planning and transport. Tensions between personal freedoms and legislative interventions are intensifying in some areas but dissipating in many others, as citizens increasingly understand that they must exercise personal responsibilities within a wider framework of governmental action. Healthcare projects will increasingly be part of wider mixed-use developments, which in turn will require mixed funding.

From disposable to circular

The age of the disposable building has passed. To truly develop a circular economy, all health buildings should be capable of alternative future use and fulfil a greater role in the public realm. As high-street shops fall empty, their replacement with innovative social and healthcare centres may help sustain town centres.
More extreme climates encourage innovative architecture, with buildings designed to be climate adaptable, very low- or zero-carbon, and energy efficient. Can health systems in high-income countries learn lessons from those in low-middle income countries in the global south? What commercial and technical innovations are developing to reduce costs and improve quality? Active buildings can integrate renewable energy technologies for heat, power and transport as components of an active healthcare network integrated into the smart city. Building and landscape design has been separated for too long; the future will see investment in greening our cities, communities and health buildings.

European Healthcare Design 2020 features two days of insightful, provocative and entertaining talks. Each day will open and close with keynote plenary sessions, before splitting into four streams (eight in total). The final session of day two will be devoted to a ceremony to present the European Healthcare Design Awards 2020, followed by the highly popular Garden Party in the Royal College of Physicians’ medicinal gardens.

The congress will also host a welcome drinks reception, a number of morning and afternoon design and planning workshops (p15), a poster gallery of innovative research and design projects (pp16–19), an exhibition of the latest design and technology solutions, and study tours of some of the UK’s most innovative new health facilities (pp22–23).

Online registration is now open and we look forward to your participation at EHD2020.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1</th>
<th>Session 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.45</td>
<td>Chair’s welcome</td>
<td>Healthcare’s climate footprint: how the health sector contributes to the global climate crisis</td>
</tr>
<tr>
<td></td>
<td>John Cooper, Programme chair, Architects for Health, UK</td>
<td>Will Clark, Executive Director, Health Care Without Harm Europe, Belgium</td>
</tr>
<tr>
<td>09.00</td>
<td>Keynote: Rescuing planetary health: the role of the health sector</td>
<td>The future of an architecture for health</td>
</tr>
<tr>
<td></td>
<td>Dr Howard Frumkin, Professor emeritus, University of Washington School of Public Health, USA</td>
<td>David Allison, Director of Graduate Studies in Architecture + Health / Alumni Distinguished Professor, Clemson University, USA</td>
</tr>
<tr>
<td>09.30</td>
<td>Keynote: Climate change and healthcare: from threat to opportunity</td>
<td>Edzard Schultz, Partner, Heinle, Wischer und Partner, Germany</td>
</tr>
<tr>
<td></td>
<td>Dr Nick Watts, Executive director, Lancet Countdown, UCL; Chair, NHS Net Zero, UK</td>
<td>Eva Henrich, Architect, Heinle, Wischer und Partner, Germany</td>
</tr>
<tr>
<td>10.00</td>
<td>Panel discussion</td>
<td>Delivering the UK’s Health Infrastructure Plan: a new strategic approach to improving our hospitals</td>
</tr>
<tr>
<td>10.45</td>
<td></td>
<td>11.45 A manifesto for the new UK hospital building programme</td>
</tr>
<tr>
<td></td>
<td></td>
<td>John Cooper, Programme chair, Architects for Health, UK</td>
</tr>
<tr>
<td>12.00</td>
<td>Panel discussion</td>
<td>12.00 Panel discussion</td>
</tr>
<tr>
<td>12.30-</td>
<td>LUNCH, EXHIBITION &amp; POSTER GALLERY</td>
<td>14.00 LUNCH, EXHIBITION &amp; POSTER GALLERY</td>
</tr>
<tr>
<td>14.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SESSION 3
Transforming health infrastructure
Chair: Richard Mann, AECOM, UK

14.00 Delivering major projects and programmes – setting up for success
Kieran McDaid, Director, capital estates and major projects, Moorfields Eye Hospital, UK
David Powell, Project director, Velindre Cancer Centre; Executive director, Alder Hey Children’s NHS FT, UK
Peter Ward, Director, real estate development, King’s College London and Guy’s and St Thomas’ NHS Foundation Trust, UK

The NHS backlog in England sits at over £6.5 billion, and £4 billion-plus of planned capital investment has been diverted to support the NHS’ day-to-day running costs. The Department of Health and Social Care has made its clearest statement in the Health Infrastructure Plan (Phases 1 and 2) that the long-overdue investment in the NHS across England might be starting, supporting the 2018 Long Term Plan commitment to deliver critical major projects and programmes essential to support new models of care. However, uncertainty prevails and fundamental questions remain unanswered, not least where the money will come from.

14.45 Panel discussion
15.30–16.00 COFFEE, EXHIBITION & POSTER GALLERY

SESSION 4
Masterplanning for major projects
Chair: Sasha Karakusevic, NHS Horizons, UK

16.00 Silicon Valley at the tipping point: Stanford Medicine Project Renewal
George Ruhl Tingwald MD, MArch, Director of medical planning, Stanford Health Care, USA
Jill Sullivan MSN, Vice-president, Lucile Packard Children’s Hospital at Stanford, USA
Niraj Dangoria, Associate dean for facilities planning and management, Stanford University, USA

16.20 Feasibility study versus a masterplan – which project definition methodology works best?
Robin Guenther, Healthcare practice leader and firmwide sustainability principal, Perkins and Will, USA
Anthony Mistretta, Healthcare operations and strategic planning executive, Perkins and Will, USA
Jeffrey Dreesman, Western US healthcare practice leader, Perkins and Will, USA

16.40 Panel discussion

SESSION 5
Keynote plenary
Chair: John Cooper, Architects for Health, UK

17.00 Keynote: The art and science of the microcosm: Leonardo da Vinci’s Dissection of the Old Man in the Hospital of Santa Maria Nuova in Florence
Martin Kemp, Emeritus research professor, History of Art, Oxford University, UK

17.45 Panel discussion
18.00 Close

18.00–20.30 EXHIBITION, POSTER GALLERY & WELCOME DRINKS RECEPTION

Supported by:

Keynote: Professional education in healthcare planning and design to build workforce capacity
Prof Andrew Edkins, Professor of the Management of Complex Projects, Bartlett Real Estate Institute, UCL, UK
### SESSION 6
**The future hospital**
Chair: Richard Cantlay, Mott MacDonald, UK

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenters</th>
</tr>
</thead>
</table>
| 10.45 | Human-centred design for tomorrow’s healing environments                     | Clark Miller, Managing principal, Perkins and Will, USA  
Dr Eve Edelstein, Director of Human Experience Lab, Perkins and Will, USA  
Emily Bateman, Project manager, Perkins and Will, USA  
                                                                                                                         |
| 11.05 | Bringing proton-beam therapy to UK patients                                  | John McIntosh, General manager, Rutherford Estates, UK  
Kevin Turnbull, Director, JDDK Architects, UK  
Mura Mullan, Director, JDDK Architects, UK  
                                                                                                                         |
| 11.25 | Clinical research facilities – facilitating the realisation of population health | Niraj Dangoria, Associate dean, Stanford University School of Medicine, USA  
                                                                                                                         |
| 11.45 | Advancing technology versus architectural and environmental design           | Emma Smyth, Architect, HDS Architects, UK  
Richard Lavine, Director, HDS Architects, UK  
                                                                                                                         |
| 12.05 | Panel discussion                                                             |                                                                                                                                                                                                          |
| 12.30 | LUNCH, EXHIBITION & POSTER GALLERY                                          |                                                                                                                                                                                                          |
| 13.00 |                                                                                                                                  |                                                                                                                                                                                                          |

### SESSION 7
**The smart hospital**
Chair: Christine Chadwick, Circle Health, Canada

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenters</th>
</tr>
</thead>
</table>
| 14.00 | Integrated patient room ‘healing’ technology design – a stepwise approach   | Merlijn Smits MSc, Design manager, R4heal, Radboud University Medical Center, Netherlands  
Harry van Goor MD, PhD, Professor of Surgical Education, Radboud University Medical Center, Netherlands  
                                                                                                                         |
| 14.20 | Conceptualisations of AI smart hospitals by experts in teamwork             | Johan van der Zwart, Assistant professor, Architecture & Health, NTNU, University of Science and Technology, Norway  
                                                                                                                         |
| 14.40 | Human-responsive healthcare buildings and neuroscience                       | Davide Ruzzon, Director, Lombardini22 Milan; NAAD Master, IUAV University of Venice, Italy  
                                                                                                                         |
| 15.00 | Panel discussion                                                             |                                                                                                                                                                                                          |
| 15.30 |                                                                                                                                  |                                                                                                                                                                                                          |
| 16.00 |                                                                                                                                  |                                                                                                                                                                                                          |

### SESSION 8
**Navigation and digital wayfinding**
Chair: Michel Verheem, ID Lab, Australia

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenters</th>
</tr>
</thead>
</table>
| 16.00 | Evaluating and optimising wayfinding in healthcare settings through biometric data and virtual-response testing | Saleh Kalantari, Assistant professor, Cornell University, USA  
Robin Snell, Principal, Parkin Architects, Canada  
                                                                                                                         |
| 16.20 | Empowerment through digital wayfinding solutions                             | Steinar Valade-Amland, Head of strategy and business development, Triagonal Information Design, Denmark  
Peter Donner, Partner, director, Triagonal Information Design, Denmark  
                                                                                                                         |
| 16.40 |                                                                                                                                  |                                                                                                                                                                                                          |
| 17.00 | Panel discussion                                                             |                                                                                                                                                                                                          |

Stream 2 begins at 10.45 in the Seligman Theatre, after the day’s opening plenary session (08.45–10.15).

Stream 2 will be brought to a close at 17.00, whereupon delegates are invited to return to the Wolfson Theatre for the day’s closing plenary session (17.00–18.00).
Stream 3 begins at 10.45 in the Council Chamber, after the day’s opening plenary session (08.45–10.15).

### SESSION 9
**Designing for older age**
*Chair: Sylvia Wyatt, Healthcare consultant, UK*

**10.45**
**Designing for the ageing population and aged-care workforce**
- Lucio Naccarella, Principal research fellow, University of Melbourne, Australia
- Nikki Beckman, Director of research and innovation, Marchese Partners International, Australia

**11.05**
**Adapting interactive web-based healthcare services (e-health) for elderly population**
- Noemi Bitterman, Chair, medical design, Technion, Israel

**11.25**
**How can we improve hospitals with age-friendly design?**
- Laia Isern Meix, Architect, Vitaller Arquitectura, Spain
- Albert Vitaller Santiró, Architect founder, Vitaller Arquitectura, Spain

**11.45**
**Museums at the heart of person-centred dementia care: the case of House of Memories**
- Kerry Wilson, Head of research, Liverpool John Moores University, UK
- Carol Rogers, Executive director, National Museums Liverpool, UK

**12.05**
**Panel discussion**

**12.30**
**LUNCH, EXHIBITION & POSTER GALLERY**

### SESSION 10
**Designing for women and children**
*Chair: Marte Lauvsnes, Sykehusbygg, Norway*

**14.00**
**Redefining paediatric healthcare services in Northern Greece in the context of the Stavros Niarchos Foundation Health Initiative**
- Moritz Spellenberg, Associate, Llewelyn Davies, UK
- Deirdre Foley Wood, Director, ETL, UK

**14.20**
**Don’t just design another hospital ward – respectful design for respectful maternity care**
- Dr Sarah Joyce, ESRC postdoctoral fellow and practising architect, University of Leeds, UK

**14.40**
**Protecting the most vulnerable: NICU design as a population health imperative**
- Francesqca Jimenez, Researcher, HDR, USA
- Renae Rich, Research analyst, HDR, USA
- Regina Reynolds, Director of nursing-nursery services, Parkland Health and Hospital System, USA
- Jeri Brittin, Research director, HDR, USA

**15.00**
**Panel discussion**

**15.30**
**COFFEE, EXHIBITION & POSTER GALLERY**

### SESSION 11
**Art and design in challenging environments**
*Chair: Suzanne MacCormick, WSP, UK*

**16.00**
**Multigenerational models of mental health design to support normalised living**
- Mark Carter, Director, Ryder Architecture, UK
- Victor Muniz, Associate, Ryder Architecture, UK

**16.20**
**Reconciling LEED and salutogenic attributes in residential care environments for the aged: Part II literature review and metric typology**
- Stephen Verderber, Professor, University of Toronto, Canada
- Terri Peters, Assistant professor, Ryerson University, Canada

**16.40**
**Panel discussion**

Stream 3 will be brought to a close at 17.00, whereupon delegates are invited to return to the Wolfson Theatre for the day’s closing plenary session (17.00–18.00).
SESSION 12
Designing for mental health
Chair: Alex Caruso, Design in Mental Health Network, UK

10.45 Anything but institutional – a new model of care for young people experiencing mental ill health – the New Orygen Development, Parkville, Australia
Tonya Hinde, Associate director, Billard Leece Partnership, Australia
Kerryn Pennell, Director of strategy and development, Orygen, National Centre of Excellence in Youth Mental Health, Australia
Paul Longridge, Associate, Billard Leece Partnership, Australia

11.05 Creating a humane environment: the new National Forensic Mental Health Hospital, Ireland
Donal Blake, Director, Scott Tallon Walker Architects, Ireland
Ruairi Reeves, Director, Medical Architecture, UK
Professor Harry Kennedy, Consultant forensic psychiatrist and executive clinical director, Central Mental Hospital, Ireland

11.25 Interrogating the ‘desktop precedent study’: a predominant but little-discussed research method in contemporary healthcare facilities design
Rebecca McLaughlan, DECRA research fellow, University of Newcastle, Australia

11.45 Artworks for New Broadmoor Hospital
Peter Shenai, Creative strategist, Art in Site, UK
Martin Jones, Director, Art in Site, UK
Louisa Williams, Director, Art in Site, UK

12.05 Panel discussion
12.30–14.00 LUNCH, EXHIBITION & POSTER GALLERY

SESSION 13
Clinical engagement in planning
Chair: Brenda Bush-Moline, Stantec, USA

14.00 A paradigm shift: providing critical care in a purposefully designed emergency critical care unit: a five-year post-occupancy analysis
Cemal Ozonzer, Associate Professor of Emergency Medicine, University of Michigan Medical School, USA
Benjamin Bassin, Assistant Professor of Emergency Medicine, University of Michigan Medical School, USA

14.20 Physician engagement in the development of the Vancouver General Hospital Surgical Center
Peter Gooderham, Surgeon lead, VGH OR Renewal Project, Vancouver General Hospital, Canada
Shelly Fleck, Clinical project director, VGH OR Renewal Project, Vancouver General Hospital, Canada
Kelly Lefaivre, Surgeon lead, VGH OR Renewal Project, Vancouver General Hospital, Canada

14.40 Shaping sustainable health infrastructure through participatory design
Jane Carthey, Doctoral student, Queensland University of Technology, Australia

15.00 Panel discussion
15.30–16.00 COFFEE, EXHIBITION & POSTER GALLERY

SESSION 14
Designing for cancer care
Chair: Karin Imoberdorf, LEAD Consultants, Switzerland

16.00 Food, art and architecture at Maggie’s Oldham
Professor Alex deRike, Director, dRMM Architects, UK

16.20 Healthcare architecture education: designing the first Maggie’s Center in Israel
Nirit Pilosof, Postdoctoral researcher, Technion – Israel Institute of Technology, Israel

16.40–17.00 Panel discussion

Stream 4 will be brought to a close at 17.00, whereupon delegates are invited to return to the Wolfson Theatre for the day’s closing plenary session (17.00–18.00).
### SESSION 15

**Opening plenary**

*Chair: Chris Liddle, HLM, UK*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.55</td>
<td>Welcome and introduction</td>
</tr>
<tr>
<td>09.00</td>
<td><strong>Keynote: Health is made at home, hospitals are for repairs</strong></td>
</tr>
<tr>
<td></td>
<td>Lord Nigel Crisp, Independent crossbench member of the House of Lords; Co-chair, All-Party Parliamentary Group on Global Health, UK</td>
</tr>
<tr>
<td>09.30</td>
<td><strong>Keynote address</strong></td>
</tr>
<tr>
<td></td>
<td>Jennifer Dixon, Chief executive, The Health Foundation, UK</td>
</tr>
<tr>
<td>10.00</td>
<td>Panel discussion</td>
</tr>
</tbody>
</table>

**COFFEE, EXHIBITION & POSTER GALLERY**

### SESSION 16

**Population health in practice**

*Chair: Paul Bell, Ryder, UK*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.45</td>
<td>The patient’s medical home – theory into practice: a frontline experience</td>
</tr>
<tr>
<td></td>
<td>Colleen McKinstry, Healthcare consultant, principal/co-owner, 143 HealthCARE Consulting, Canada</td>
</tr>
<tr>
<td></td>
<td>Stacey Strilchuk, Healthcare consultant, principal/co-owner, 143 HealthCARE Consulting, Canada</td>
</tr>
<tr>
<td>11.05</td>
<td>Focusing on population health through a living design framework</td>
</tr>
<tr>
<td></td>
<td>Basak Alkan, Senior urban designer, senior associate, Perkins and Will, USA</td>
</tr>
<tr>
<td>11.25</td>
<td>Royal St: better health and wellbeing for people through an evidence-based, outcome-focused approach</td>
</tr>
<tr>
<td></td>
<td>Katie Wood, Director, Arup, UK</td>
</tr>
<tr>
<td></td>
<td>Angela Crowther, Associate, Arup, UK</td>
</tr>
<tr>
<td>11.45</td>
<td>Redefining the shape and form of health systems – the new Healthcare Centre Holstebro, Denmark</td>
</tr>
<tr>
<td></td>
<td>Birgitte Ernst, Partner, Arkitema Architects, Denmark</td>
</tr>
<tr>
<td>12.05</td>
<td>Panel discussion</td>
</tr>
<tr>
<td>12.30</td>
<td><strong>LUNCH, EXHIBITION &amp; POSTER GALLERY</strong></td>
</tr>
<tr>
<td>14.00</td>
<td></td>
</tr>
</tbody>
</table>
SESSION 17
Integrating care in the community
Chair: David Allison, Clemson University, USA
14.00 Healthcare in placemaking: putting population health needs at the heart of regeneration
Helen Revitt, Regional director, AHR, UK
Alison Evans, Regional director, AHR, UK
14.20 Integrated health, social care and leisure hubs delivering improved health outcomes and social benefits
Jonathan Turner, Associate partner, health planning, Rider Levett Bucknall, UK
14.40 How design can reduce aggressive behaviours of patients. Experiences from primary care in the Spanish Health System
Angela Elisabeth Müller, Architect and consultant, Parra-Müller, Spain
15.00 Panel discussion
15.30-16.00 COFFEE, EXHIBITION & POSTER GALLERY

SESSION 18
The hospital in the city
Chair: Kevin Cassidy, WSP, Canada
16.00 Great Ormond Street Hospital as a part of the city – a health-led approach to public realm
Magali Thomson, Project lead for placemaking, Great Ormond Street Hospital NHS Foundation Trust, UK
16.15 Making connections: reimagining clinical and research environments as a shared urban experience
Gavin Henderson, Principal director, Stanton Williams Architects, UK
16.30 Regenerative design is a trigger for developing healthy communities: a case study of the University Hospital Tübingen, Germany
Tatiana Epimakhova, Architect, Heinle, Wischer und Partner, Freie Architekten, Germany
Edzard Schultz, Partner, Heinle, Wischer und Partner Freie Architekten, Germany
16.50-17.00 Panel discussion

SESSION 19
Closing plenary and awards
Chair: Chris Shaw, Architects for Health, UK
17.00 Announcement of the Visualite competition winner of £10,000 worth of clinical lighting solutions
17.15 European Healthcare Design Awards 2020
Supported by lead sponsor:
17.45–18.00 Closing address
John Cooper, Programme chair, Architects for Health, UK
18.30–22.00 GARDEN PARTY AND LIVE MUSIC
DAY 2, STREAM 6: HEALTHCARE PLANNING AND INVESTMENT
9 June 2020 Seligman Theatre

Stream 6 begins at 10.45 in the Seligman Theatre, after the day’s opening plenary session (08.55–10.15).

SESSION 20
Transformation, investment and guidelines
Chair: John Cole, Queen’s University Belfast, UK

10.45 Better structured projects – a case study from building a model for healthcare delivery across a country
Conor Ellis, Head of health, Rider Levett Bucknall, UK

11.05 Health service sustainability and investment prioritisation framework
Matthew Holmes, Global healthcare director, Jacobs, Australia
Annabel Frazer, Director, clinical health planner, Jacobs, Australia
Kerry Armstrong, Director of healthcare, Jacobs, Australia

11.25 Achieving healthcare transformation in times of austerity
John Kelly, Director, ETL, UK
Frank Kittredge, Director, HKS, USA

11.45 Sixty years of research and guidance: Health Building Notes and Technical Memoranda
Susan Holding, Associate director, Archus, UK
Richard Darch, Chief executive, Archus, UK

12.05 Panel discussion

12.30–14.00 LUNCH, EXHIBITION & POSTER GALLERY

SESSION 21
The future of health planning
Chair: Richard Darch, Archus, UK

14.00 Professionalising health planning globally
The development of a new Health Planning Academy to bring rigour and professionalism to the discipline internationally
Organised by:

For the full abstract and details of the panel, go to p15

15.30–16.00 COFFEE, EXHIBITION & POSTER GALLERY

SESSION 22
Green and healthy hospital design
Chair: Robin Guenther, Perkins and Will, USA

16.00 Designing zero-carbon hospitals that heal
Andy Vernon, Director of healthcare, Hoare Lea, UK
Eimear Moloney, Associate director, Hoare Lea, UK

16.20 Tall hospitals
Regina Kennedy, Associate, ETL, UK
Tina Nolan, Director, ETL, UK
Paul Johnson, Director, BDP UK
Bob Klaber, Consultant general paediatrician; Director of strategy, research and innovation, Imperial College Healthcare NHS Trust, UK

16.40–17.00 Panel discussion

Stream 6 will be brought to a close at 17.00, whereupon delegates are invited to return to the Wolfson Theatre for the day’s closing plenary session (17.00–17.45).
Stream 7 begins at 10.45 in the Council Chamber, after the day’s opening plenary session (08.55–10.15).

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>07.30– 08.45</td>
<td>WORKSHOP: How can the healthcare industry support cities in their transformation to decarbonisation? <strong>Organised by:</strong> WSP</td>
</tr>
</tbody>
</table>
| 10.45  | **SESSION 23** Adaptation, resilience and carbon positive  
|        | Chair: Hank Adams, HDR, USA                                            |
|        | Towards a carbon-positive healthcare infrastructure  
|        | Kelly Alvarez Doran, Senior principal, MASS Design Group, UK          |
|        | Amie Shao, Principal, MASS Design Group, Rwanda                       |
|        | James Kitchin, Engineer, MASS Design Group, Rwanda                    |
|        | John Maher, Architect, MASS Design Group, USA                         |
| 10.45  | **SESSION 24** Materials in the circular hospital  
|        | Chair: Alan Kondys, IHP and Vinci, UK                                 |
| 14.00  | A field guide to safe and circular building materials  
|        | Jean Hansen, Sustainable principal, senior professional associate, HDR, USA  
|        | Wendy Vittori, Executive director, Health Product Declaration Collaborative, USA |
| 14.20  | Wood in healthcare buildings, sustainable and healthy – theory and practice case: Psychiatric Clinic, Södra Älvsborgs Sjukhus, Borås, Sweden  
|        | Magnus Bunner, Architect, White Arkitekter, Sweden  
|        | Jens Axelsson, Architect, White Arkitekter, Sweden  
|        | Stefan Lundin, PhD student, Chalmers University of Technology, Sweden |
| 14.40  | How to reduce whole-life carbon in a new London development  
|        | Helen Hough, Associate, Bryden Wood, UK  
|        | Martina Cardi, Associate, Bryden Wood, UK                            |
| 15.00  | Panel discussion                                                      |
| 15.30– 16.00 | **SESSION 25** Healthcare’s climate footprint  
|        | Chairs: Katie Wood and Kristian Steele, Arup, UK                     |
| 16.00– 17.00 | DESIGN WORKSHOP: Healthcare’s climate footprint: how the health sector contributes to the global climate crisis and opportunities for action  
|        | The healthcare sector, which sits on the front lines as a first responder to climate change, also makes a significant contribution to the problem. This workshop will explore how healthcare can respond to the climate emergency not only by treating those affected by the climate crisis and its causes but also by practising primary prevention; radically reducing its own emissions. |

Stream 7 will be brought to a close at 17.00, whereupon delegates are invited to return to the Wolfson Theatre for the day’s closing plenary session (17.00–17.45).
DAY 2, STREAM 8: EVIDENCE AT THE DESIGN & MEDICINE INTERFACE
9 June 2020 Linacre and Sloane Room

Stream 8 begins at 10.45 in the Linacre and Sloane Room, after the day’s opening plenary session (08.55–10.15).

SESSION 26
Designing from the clinician’s perspective
Co-chairs: Eve Edelstein, Clinicians for Design, USA
Emma Stockton, Building Blocks for Clinicians, UK

09.00–12.30
WORKSHOP: Clinicians for Design: experts at the intersection of design and health
Organised by:

For the full abstract and details of the panel, go to p15

12.30–14.00
LUNCH, EXHIBITION & POSTER GALLERY

SESSION 27
Designing for critical care and surgery
Chair: Ganesh Suntharalingham, Intensive Care Society, UK

14.00
Return to the fishbowl: increasing visibility in the ICU
D Kirk Hamilton, Julie & Craig Beale Endowed Professor of Health Facility Design, Texas A&M University, USA
Sandra M Swoboda, Research programme co-ordinator, Schools of Medicine & Nursing, Johns Hopkins University, USA
Charles D Cadenhead, Senior principal and senior medical planner, EYP Architecture & Engineering, USA

14.20
Translating research into practice: a web-based ‘Safe Operating Room design’ tool to support evidence-based design decision-making
Anjali Joseph, Professor, Endowed chair, Director, Center for Health Facilities Design and Testing, Clemson University, USA
Deborah Wingler, Vice-president, healthcare research lead, HKS Architects, USA
Herminia Machry, Graduate assistant, Clemson University, USA

14.40
Present-day challenges of integration and control for the operating theatres of the future
Adrian Hall, Chief operating officer, Brandon Medical Co, UK

15.00
Panel discussion

15.30–16.00
COFFEE, EXHIBITION & POSTER GALLERY

SESSION 28
Integrating buildings, technologies and services
Chair: David Martin, Stantec, UK

16.00
When integrated project delivery is not enough and changes are needed: some examples from inpatient wards with 100-per-cent single-occupancy rooms
 Liesbeth van Heel, Senior policy advisor and PhD student, Erasmus University Medical Centre, Netherlands

16.20
Empowering patients with self-serving logistics
Thomas Strecke Leitner, Market director, hospital logistics – Nordics and UK, Ramboll Denmark, Denmark
Kristian Bille, Logistics consultant, Capital region of Denmark, Denmark

16.40–17.00
Panel discussion

16.30–17.00
COFFEE, EXHIBITION & POSTER GALLERY

Stream 8 will be brought to a close at 17.00, whereupon delegates are invited to return to the Wolfson Theatre for the day’s closing plenary session (17.00–17.45).
**DESIGN AND PLANNING WORKSHOPS**

**8 – 9 JUNE**

**09.00 – 17.00**

**EHDOB 20 Studio: Art and Design**

Room: Platt Room

Collaborating with a collective of partners, art studio Art in Site will curate a programme of activities and interactive exhibits over the two days of the congress, showcasing innovative approaches to art and design for healthcare environments. This session will provide a counterpoint to the lecture format, offering attendees a chance to get hands-on and creative, or to browse freely.

Audiences will have the chance to browse physical prototypes, samples, and materials, provided by practitioners, showing a range of uses and materials of artworks, which can be touched and discussed.

**Panel:**

- Louisa Williams, Art in Site, UK
- Martin Jones, Art in Site, UK
- Peter Shera, Art in Site, UK

**9 JUNE**

**07.30 – 08.45**

**How can the healthcare industry support cities in their transformation to decarbonisation?**

Room: Council Chamber

Cities consume 78% of the world’s energy and produce more than 60% of its greenhouse gas (GHG) emissions, while the healthcare industry contributes to 4% of global GHG emissions. This workshop will look at the impact of the healthcare industry on global cities’ efforts to decarbonise by minimising energy use and embodied carbon. The session will review the opportunities and challenges faced by the healthcare industry in this path towards decarbonisation within the broader theme of environmental sustainability in the built environment.

**Panel:**

- Suzanne MacCormick, WSP, UK
- Gary Hamilton, WSP, USA

**9 JUNE – SESSION 26**

**10.45 – 12.30**

**Clinicians for Design: experts at the intersection of design and health**

Room: Linacre and Sloane Room

This workshop for clinicians and estate stakeholders conveys how clinical and research insights may be translated into innovations at the interface of design and health. An international panel of clinicians and clinical researchers, who also have direct experience in the design process, will describe how their work has changed design and influenced outcomes. Each presenter will describe a different method and results that may inform design changes, best practices and guidance. Topics include: the influence of medical equipment noise on clinical speech intelligibility and error; emerging sensors for tracking and logging sound exposure; mapping operating theatre space and constraints; design conditions that address the diverse sensory, perceptual, cognitive and ambulatory needs of neurological and neurosurgical patients; design for paediatric patients across the hospital, and for the provision of anaesthesia and pain management care. Finally, we’ll consider how design and health can be served from micro to macro scale in urban and built settings.

**Panel:**

- Eve Edelstein, Perkins and Will, USA
- Emma Stockton, GOSH, UK
- Paul Greg, University of Oxford, UK
- Adrian Upe, Bristol Royal Hospital for Children, UK
- George Tingwell, Stanford University, USA

**9 JUNE – SESSION 21**

**14.00 – 15.30**

**Professionalising health planning globally**

Room: Seligman Theatre

As health systems around the world grapple with the acceleration of new technologies, growing public expectation, and how these pressures impact and shape healthcare delivery, health planners have the opportunity to be centre stage. But how are the sub-disciplines of strategic health planning, clinical planning and space planning informing the design of health systems, clinical processes and new facilities? At last year’s congress, an interdisciplinary group of delegates attended a breakfast meeting to form a new professional body to regulate and represent health planners from around the globe, establishing a united voice, and bring rigour and professionalism to the discipline. Nearly 12 months on, the Health Planning Academy has been formed, with directors appointed and more than 70 people registered as interested in becoming subscribing members of the new Academy. This year’s seminar will feature presentations from seasoned health planners on their work, and a panel on how best to position the discipline to inform health policy around the world.

**Panel:**

- Richard Darch, Archus, UK
- John Kelly, ETL, UK
- Tina Nolan, ETL, UK

**Organised by:**

- Art in Site
- NHS Property Services
- ETL, UK
- NHS Property Services, UK
- NHS Property Services, UK

**Organised by:**

- NHS Property Services
- NHS Property Services, UK
- NHS Property Services, UK
- NHS Property Services, UK

**Organised by:**

- NHS Property Services
- NHS Property Services, UK
- NHS Property Services, UK
- NHS Property Services, UK

15
<table>
<thead>
<tr>
<th>Poster Number</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
</table>
| P01           | Rethinking university citizenship: using student-run engagement to build health and wellbeing in local populations | Barry Tolchard, Professor and head of department, University of Huddersfield (UK)  
Joanne Garside, Director of health partnerships, University of Huddersfield (UK) |
| P02           | Delivering chronic condition preventive and self-management support interventions through physiology-centred healthcare design in public spaces: community chronic care capsules | Eva Hernandez-Garcia, Architect MSc, University of Barcelona (Spain) |
| P03           | Quantifying design change ROI using technology                        | Tracey Graham, Healthcare strategist, Graduate Student (UK)            |
| P04           | ABW tool: how to ease change resistance in an activity-based working environment when planning the hospital | Teemu Kiveri, Processes expert, Kanta-Häme Hospital District (Finland)  
Paula Turunen, Chief physician of the project, Kanta-Häme Hospital District (Finland) |
| P05           | CU@Home – proactively managing safe transitions to home after joint replacement surgery | Anjali Joseph, Professor, Endowed chair, Director,  
Center for Health Facilities Design and Testing, Clemson University (USA)  
Sahar Mihandoust, Research assistant Professor, Architecture & Health, Clemson University (USA)  
Lisa Hoskins, Graduate assistant, Architecture & Health, Clemson University (USA) |
| P06           | Designing for relationships: contributions to health sciences professional culture by a building | Eleonore Leclerc, Healthcare architect, Stantec Architecture (Canada)  
Lisa Chu, Dean, British Columbia Institute of Technology (Canada) |
| P07           | More than just waiting: what do care partners find important in a surgery centre waiting room? | Anjali Joseph, Professor, Endowed chair, Director,  
Center for Health Facilities Design and Testing, Clemson University (USA)  
Roxana Jafarirouzabadi, Graduate assistant, doctoral candidate, Architecture & Health, Clemson University (USA)  
Rutali Joshi, Graduate assistant, Doctoral candidate, Architecture & Health, Clemson University (USA)  
Deborah Wingler, Vice-president, health research lead, HKS Architects (USA) |
| P08           | Cognitive design: adaptive biophilia for older hospitals              | David Navarrete, Director, research initiatives, Sky Factory, (USA)       |
| P09           | Design, health and community – an analysis of small-scale cancer care facilities and the implications for the existing Brisbane, Australia Age Care model | Gabriella Avenia King, Graduate of Architecture, Hassell (Australia) |
| P10           | The surgery unit of the future: an experimental prototype             | Ana Lucia Morales Tarazona, Architect, LAHB – Laboratorio de Arquitectura Hospitalaria Barcelona (Spain) |
| P11           | Wayfinding way beyond the point of care delivery                      | Steinar Valade-Amland, Head of strategy and business development, Triagonal Information Design (Denmark)  
Peter Donner, Partner, director, Triagonal Information Design (Denmark)  
Louise H Kristiansen, Research assistant, Triagonal Information Design (Denmark) |
| P12           | Effects of inpatient unit design on nurses’ walking distances and job satisfaction in three Jordanian hospitals | Bushra B Obeidat, Assistant professor, Jordan University of Science and Technology (Jordan) |
| P13           | Evaluation of droplet production by a new design of clinical hand wash basin for the healthcare environment | Samuel Yui, Research scientist, University College London Hospitals (UK)  
Monika Muzslay, Research scientist, University College London Hospitals (UK)  
Kush Karia, Research scientist, University College London Hospitals (UK)  
Bronwen Shuttleworth, Infection control nurse, University College London Hospitals (UK)  
Shanom Ali, Research scientist, University College London Hospitals (UK)  
Peter Wilson, Consultant microbiologist, University College London Hospitals (UK) |
| P14           | Factors that influence the design process in public hospitals in Thailand, Denmark and Norway | Supuck Prugsiganont, PhD candidate, Technical University of Denmark (Denmark)  
Per Anker Jensen, Professor, Technical University of Denmark (Denmark) |
| P15           | Healthy data – leveraging healthcare information to design a healthier society | Nolan Rome, US director of healthcare, WSP (USA)  
Kevin Cassidy, Canada director of healthcare, WSP (USA) |
| P16           | Metabolic syndrome and architecture: improving our health and wellbeing | Anthony Jones, Associate director, The Fairhursts Design Group (UK)  
Linda Jordan, Senior healthcare architect, The Fairhursts Design Group (UK) |
| P17           | Clinical scenario-driven approach of design and technology at the normal ward | Harry van Goor, Professor of Surgery and Innovation, Radboud University Medical Centre (Netherlands)  
Geert Visker, Digital coach, service designer, Full2Inspire (Netherlands) |
Designing for cultural sustainability: development of a toolkit to support the design of culturally sustainable healthcare environments
Sophie Crocker, Medical planner and designer researcher, HKS Architects (UK)
Deborah Wingler, Health research director, HKS Architects (UK)
Jane Ho, Healthcare design director, HKS Architects (UK)
Jason Schroer, Executive practice director, HKS Architects (UK)

Eco-urbanism, natural capital, health and wellbeing
Luke Engleback, Founder/director, Studio Engleback (UK)

Team-based design of a universal or – ‘any case, any room, anytime’
Kelly Lefaivre, Surgeon lead, VGH OR Renewal Project, Vancouver Acute (Canada)
Peter Gooderham, Surgeon lead, VGH OR Renewal Project, Vancouver Acute (Canada)
Shelly Fleck, Clinical project director, VGH OR Renewal Project, Vancouver Acute (Canada)

General collective intelligence as a paradigm in healthcare
Andy E Williams, Executive director, Nobah Foundation (UK)

Stop interrupting and start collaborating: designing the physician workspace to support handovers in the emergency department
Rutali Joshi, Doctoral candidate, Architecture & Health, Center for Health Facilities Design and Testing, Clemson University (USA)
Anjali Joseph, Endowed chair, Center for Health Facilities Design and Testing, Clemson University (USA)
Ronald Pirrallo, Vice-chair for academic affairs, Prisma Health (USA)
David Allison, Director of graduate studies, Clemson University (USA)

Spatial awareness, the ICU nurse and design
D Kirk Hamilton, Julie & Craig Beale Endowed Professor of Health Facility Design, Texas A&M University (USA)

Horseshoe, cockpit, and dragonfly: nurse movement patterns in the ICU
D Kirk Hamilton, Julie & Craig Beale Endowed Professor of Health Facility Design, Texas A&M University (USA)

Renovating for planetary health: reducing the impact of surgical services on the climate
Shelly Fleck, Clinical project director, VGH OR Renewal Project; Director, surgical services, Vancouver Acute, Vancouver General Hospital (Canada)
Dr Kelly Lefaivre, Orthopaedic trauma surgeon; Surgeon lead, VGH OR Renewal Project, Vancouver General Hospital (Canada)
Knut Boeck, Principal, DYS Architecture (Canada)
Dr Peter Gooderham, Neurosurgeon; Surgeon lead, VGH OR Renewal Project, Vancouver General Hospital (Canada)

Explicating the concept of healing environment for older people living in long-term care facilities using hybrid model
Tak, Young Ran, Professor, Hanyang University (South Korea)
Lee, Hanyi, Professor, Hanyang University (South Korea)

Global Healthcare Index: world cities’ future readiness for healthcare delivery in a changing climate
Mark Bessoudo, Research manager, WSP (UK)
Gerard Brissooe, Research associate, Royal College of Art (UK)

Come to your senses: dementia-sensitive design saves care time
Dr Birgit Dietz, CEO, Bavarian Institute of Architecture for the Elderly and Cognitively Impaired (Germany)

Lessons learnt from the implementation of new care models in the North East
Gregory Maniatopoulos, Senior research associate, Newcastle University (UK)
David J Hunter, Professor of Health Policy and Management, Newcastle University (UK)
Jonathan Erskine, Executive director, European Health Property Network / Honorary fellow, Durham University (UK)
Bob Hudson, Visiting professor, Kent University (UK)

Shaping the future of care
David Lewis, Partner, NBBJ (UK)

CAR-T cell therapy versus architectural design – a new-build approach
Emma Smyth, Architect, HDS Architects (UK)

CAR-T cell therapy versus architectural design – a retrofit approach
Emma Smyth, Architect, HDS Architects (UK)

Intersections at the tipping point: synergistic design for health, education and societal wellbeing
Juliet Rogers PhD, MPH, Principal, CannonDesign (USA)
Bradley Lukanci, CEO, CannonDesign (USA)
David Polzin, Principal, director of design, CannonDesign (USA)
Patricia Bou, Principal, co-director of education practice, CannonDesign (USA)

Physician engagement and perspective in the Lean facility design process
Benjamin Bassin MD, EDAC, Director of critical care operations, associate service chief, attending physician, University of Michigan Health System (USA)
Cemal Sozener MD, MEng, EDAC, Medical director, Comprehensive Stroke Center; Attending physician, University of Michigan Health System (USA)
Diana Anderson MD, MArch, Healthcare architect, internist, fellow in Geriatric Medicine, University of California – San Francisco (USA)
Juliet Rogers PhD, MPH, President, Blue Cottage of CannonDesign, Blue Cottage Consulting (USA)
P35 Novel design research methodologies for understanding space
Bella Shah Nagappan, Resident physician, University of Michigan (USA)
Ben Bassin, Assistant professor, Emergency Medicine; Associate director, Survival Flight, University of Michigan (USA)
Cemal Sozener, Associate professor, Emergency Medicine, University of Michigan (USA)

P36 Towards a new urban gastronomic dynamism
Simran Singh, Architect and urban designer, consultant (India)

P37 Design as a factor of behaviour change
Prof. Levkovitz Yechiel, Deputy director, Beer Yaakov / Ness Ziona Mental Health Centre (Israel)
Dalia Shilony, Independent interior designer (Israel)
Shlomit Rotman Lor, Project manager, Beer Yaakov / Ness Ziona Mental Health Centre (Israel)

P38 Design’s ability to transform and deliver population health
Louis A Mellink Jr, Senior principal, Ballinger (USA)
Christina Grimes, Associate principal and director of healthcare planning, Ballinger (USA)

P39 Promoting community advancement and education
James Crispino, Global practice area leader, Gensler (USA)

P40 Asset light / experience heavy
Scot Latimer, Health and wellness leader, strategy director, Gensler (USA)
Randy Guillot, Health and wellness leader, design director, principal, Gensler (USA)

P41 The impact of single-family room design on family engagement in the neonatal ICU
Herminia Machry, Graduate research assistant, Clemson University (USA)
Anjali Joseph, Professor, Clemson University (USA)

P42 Exploring the relationship between access to nature views and nurse burnout
Sahar Mihandoust, Research assistant professor, Clemson University (USA)
Debjyoti Pati, Assistant professor, Texas Tech University (USA)

P43 The politics of colour: how to choose the right palette
Peter Shenai, Creative strategist, Art in Site (UK)
Martin Jones, Director, Art in Site (UK)
Louisa Williams, Director, Art in Site (UK)

P44 The hospital as playground – how to bring “doctoring” and “playing” closer together through art and design
Peter Shenai, Creative strategist, Art in Site (UK)
Martin Jones, Director, Art in Site (UK)
Louisa Williams, Director, Art in Site (UK)
Shelley Ripphagen, Consultant in paediatric intensive care, Evelina London Children’s Hospital, Guy’s and St Thomas NHS Foundation Trust (UK)

P45 A research on approaches to multigenerational healthcare design
Elif Özgen, Research assistant, Hacettepe University (Turkey)
Imran Kavaz Altun, Research assistant, Hacettepe University (Turkey)
Bilge Sayil Onaran, Professor, Hacettepe University (Turkey)

P46 How we can use graphic communication sustainably to aid the user journey within a UK hospital
Alex Harrington, Graphic designer and researcher (UK)

P47 Reshaping primary care
Jason Pearson, Director of healthcare and science architecture, AECOM (UK)
Jack Dunmore, Estates project officer, WEL Clinical Commissioning Groups – Newham, Tower Hamlets and Waltham Forest (UK)

P48 Hospitals should make you feel better
Ivan Harbour, Senior partner, Rogers Stirk Harbour + Partners (UK)
Steve Martin, Associate partner, Rogers Stirk Harbour + Partners (UK)

P49 Circulating health information towards health action: a design approach to translating clinical guidelines for population impact
Nita Lakhani, Student, Ontario College of Art and Design (Canada)
Peter Jones, Associate professor, Ontario College of Art and Design (Canada)
Chris Rice, Student, Ontario College of Art and Design (Canada)

P50 Inclusive design thinking – designing from small to big
Astrid Piber, Partner, senior architect, UNStudio (Netherlands)
Erik van Kuijk, Creative director, MMEK’ (Netherlands)
Martijn Meeske, Business director, MMEK’ (Netherlands)
Lars van Hoften, Architect, UNStudio (Netherlands)

P51 Healthy food kit: inclusive and accessible health support through the Toronto Public Library
Courtney Chapman, Project manager, Sinai Health System (Mount Sinai Hospital) (USA)
Sean Molloy, Professor, OCAD University (USA)
Cynthia Toniolo, Manager, Toronto Public Library (USA)

P52 Impact of sensory lighting solutions on the reduction of stress and anxiety in critical-care patients and patients with dementia in radiology and A&E
Sharon Parish, Clinical project manager, Visualite (UK)
Helen Green, Associate director of nursing, Barnsley Hospital NHS Trust (UK)
Anita Ruckledge, Dementia lead nurse, Mid Yorkshire NHS Trust (UK)

P53 Production success
Li Liljeborg, Architect, LINK arkitektur (Sweden)
Anna Rolf, Architect, LINK arkitektur (Sweden)

P54 A safe home is still a home
Diane Chandler, Lead occupational therapist, Sussex Partnership Foundation NHS Trust (UK)
Audrey Yong, Senior lecturer, occupational therapy, Brighton University (UK)
P55 Redefining public health in the context of the Healthcare Infrastructure Plan
Justin Harris, Global healthcare deputy lead, IBI Group (UK)

P56 No place like home – an innovation hub for outpatient care
John Kelly, Director, ETL (UK)
Tina Nolan, Director, ETL (UK)
Jack Goodall, Consultant, ETL (UK)

P57 Redefining primary care
Chris Thornton, Healthcare sector lead, ADP (UK)
Dr Edward Williams, Senior partner, Ascot Medical Practice (UK)
Duncan Kerr, CEO, Wave Leisure (UK)

P58 Carbon-balanced buildings and communities: a response to the climate emergency
Duncan Griffin, Managing principal, HDR (USA)
Josh Greenfield, Director of high-performance design, HDR (USA)
Rebecca Bouchey, Director of community development, Forterra (USA)

P59 Redesigning systems of health: human-centred, participatory and systems-minded (HPS) approaches to co-designing community health initiatives in resource-constrained contexts
Mikaela Patrick, Research associate, STEMA (UK)
Geordan Shannon, Research fellow, UCL/STEMA (UK)
Nikita Simpson, Project officer, SHM Foundation; PhD candidate, London School of Economics (UK)
Tatiana Salisbury, Research fellow, King’s College London (UK)

P60 Integrating green and blue infrastructure into healthcare investment
Luke Engleback, Chartered landscape architect, eco-urbanist, founder/director, Studio Engleback (UK)

P61 Health in the built environment – new systems to bridge architecture and medicine
Timothy D Rossi, Founder, Architectural Medicine (USA)

P62 Helping people lead healthy lives
Jean Hansen, Sustainable principal, senior professional associate, HDR (USA)
Matthew Cunha-Rigby, Sustainable leader, HDR (USA)
Eileen Gohr, Senior Sustainable Consultant, HDR (USA)

P63 A conceptual model for sustainable “closed-loop” communities incorporating salutogenic principles
Larissa Lai, PhD student, University College London (UK)
Dr Evangelia Chrysikou, Lecturer, programme director, MSc Healthcare Facilities, UCL (UK)

P64 Designing paediatric networks – It’s not child’s play
Deirdre Foley-Woods, Director, ETL (UK)
Alice Dowling, Consultant, ETL (UK)

P65 Accelerating capabilities and advancing business models for modern operating theatre manufacture
Grant Mills, Associate professor, University College London (UK)
Anne Symons, Research associate, University College London (UK)

P66 EDesignX – influence of design of built-environment on patient and staff experiences in emergency department of a hospital
Chetna Bhatia, Managing director and founder, Plan4Med (Singapore)
Dr Quek Lit Sin, Head of department, Ng Teng Fong General Hospital (Singapore)
Dr Ng Wei Ming, Consultant, Ng Teng Fong General Hospital (Singapore)

P67 Social interactions and child healthcare design
Nassia Ghida, PhD student, Ecole Polytechnique d’Architecture et d’Urbanisme (EPAU) / Università degli Studi di Cagliari (Italy)
Kenza Boussora, Senior professor, Ecole Polytechnique d’Architecture et d’Urbanisme (EPAU) (Italy)
Carlo Atzeni, Professor, Università degli Studi di Cagliari (Italy)
THE PROGRAMME COMMITTEE

Emma Stockton MD
Consultant paediatric anaesthetist, Great Ormond Street Hospital for Children, UK

Charlotte Ruben
Partner, White Arkitekter, Sweden

Prof Noemi Bitterman PhD
Academic director, Masters of Industrial Design (MID), Technion, Israel

John Cooper BA Dip Arch, RIBA
Director, John Cooper Architecture (JCA), UK

John Cole CBE
Honorary professor, Queen’s University Belfast, UK

Göran Lindahl PhD
Associate professor, head of division, building design, Chalmers University, Sweden

Ganesh Suntharalingam MB BChir
President, Intensive Care Society, UK

Christine Chadwick
Consultant, Circle Health, Canada

Sasha Karakusevic BDS, MBA
Project director, NHS Horizons; senior fellow, Nuffield Trust, UK

Sylvia Wyatt MA, AHSM
Health and care strategic advisor and consultant, UK

David Allison FAIA, FACHA
Alumni distinguished professor; Director of architecture + health, Clemson University, USA

Diana Anderson MD, MArch, ACHA
Dochtrect, Geriatric fellow at UCSF Medical Center, USA

Marte Lauvsnes
Manager, Advisory and Planning Department, Sykehusbygg, Norway

Karin Imoberdorf Dipl Arch, MPH
Architect, LEAD Consultants, Switzerland

Upali Nanda PhD
Principal and director of research, HKS, USA

Davide Ruzzon
Director of TUNED, Lombardini22, Italy

Organising Committee
Christopher Shaw, Chairman, Architects for Health
Jonathan Erskine, Director, European Health Property Network
Kate Copeland, Chair, Australian Health Design Council
Jim Chapman, Visiting professor, Manchester School of Architecture
Stephanie Williamson, Deputy director of development, Great Ormond Street Hospital for Children NHS Foundation Trust
Alessandro Caruso, Director, Design in Mental Health Network
Claudia Bloom, Executive board, Architects for Health

For further enquiries on the event programme, sponsorship or exhibition opportunities, contact:
SALUS Global Knowledge Exchange
E: info@europeanhealthcaredesign.eu • T: +44 (0)1277 634176

www.europeanhealthcaredesign.eu
VENUE & HOTEL ACCOMMODATION

THE VENUE: A MODERNIST MASTERPIECE

Founded in 1518, the Royal College of Physician’s current headquarters is a Grade 1 listed building in Regent’s Park, designed by architect Sir Denys Lasdun and opened in 1964. Considered a modernist masterpiece, it’s one of London’s most important post-war buildings. In 1992, Sir Lasdun was awarded the Royal Institute of British Architects’ Trustee Medal in recognition of his work at the RCP, considered to be “the best architecture of its time anywhere in the world”.

Sir Lasdun won the competition to design the new headquarters in 1959. He was surprised at being asked to design for such a traditional body, given his modernist philosophy, and he made it clear that he would not create a classical-style building. Ultimately, he responded to the challenge with a skilful integration of centuries-old traditions and his own modernist vision. As an award-winning and highly versatile venue for conferences, meetings, banquets, training and outdoor events, the building has an atmosphere of space and light, with contemporary architecture and a selection of both old and new styles.

DISCOUNTED ROOM RATES FOR DELEGATES

The Melia White House Hotel remains a prime example of late 1930s architecture, offering an eclectic style where contemporary and classic design meet.

This four-star hotel has 581 rooms, 112 apartments, nine meeting rooms, two restaurants and a bar with a terrace, a fitness centre, and an executive lounge. The hotel benefits from a prime London location in Regent’s Park, within close proximity of the city’s main attractions and a few minutes’ walk from the conference venue. The hotel is served by three underground stations – Warren Street, Great Portland Street and Regent’s Park – and main train stations including King’s Cross St Pancras and Euston Station.

Melia White House Hotel

Classic Single room with breakfast £185

Classic King room with breakfast £230 (double rate: £245)

Executive room with breakfast £275 (double rate: £290)

Executive includes executive lounge access

All room rates are VAT inclusive.

On receipt of your registration, a website link and code will be provided to enable you to book your accommodation at the above rates. Please book early to avoid disappointment.
Participants in the European Healthcare Design 2020 Congress will get the opportunity to join three unique study tours featuring some of the UK’s latest benchmark healthcare projects and architectural landmarks. Places on each tour are limited, so please register early to avoid disappointment.

**STUDY TOUR 1: LONDON** (Maximum 25 participants)

**2 Redman Place** (pictured top left)
Rogers Stirk Harbour + Partners (RSHP) was commissioned in 2014 to review the IQL (International Quarter London) South and IQL North masterplan in Stratford, and develop a building ‘chassis’ that would enable buildings of different sizes and configurations to be created using the same basic components.

The functional brief for 2 Redman Place, as part of the IQL masterplan, is to provide 265,000-270,000ft² of commercial office space. Central to achieving the client’s desire to promote health and wellbeing will be a workplace that maximises daylight and views, with optional open atria and highly visible stairs. The building, which will be the new home of Cancer Research UK and the British Council, is rated ‘Outstanding’ by BREEAM.

**Centre Building at the London School of Economics** (pictured centre)
The Centre Building on the LSE’s Aldwych campus in London is a new 17,500m² landmark teaching and academic building, the design of which is inspired by the school’s core values: collaboration, excellence and innovation.

The original brief called for world-class architecture, and included the demolition and redevelopment of three existing buildings to create a new 10-storey building. RSHP has gone further by designing a new public square, creating a focal point for the school, and improving connectivity and wayfinding. Rated BREEAM Outstanding, the design is vertically zoned, with the most public and highly serviced facilities on lower levels. These are joined by a four-storey atrium, which links social learning spaces, teaching rooms and a large auditorium.

**Zayed Centre for Research into Rare Disease in Children** (pictured bottom right)
Designed by Stanton Williams, the Zayed Centre for Research into Rare Disease in Children, for Great Ormond Street Hospital Foundation Trust, University College London and Great Ormond Street Hospital Children’s Charity, is the world’s first purpose-built centre for paediatric research into rare diseases.

Set in London’s Knowledge Quarter, the facility is conceived as a holistic space where science, city and human lives come together. It’s organised around two connected ‘hearts’, an outpatient zone and a research zone, each planned as layered volumes around a daylit atrium. Across eight storeys, the building provides academic research workspace, seminar and meeting spaces, laboratories, equipment space, specialist clean rooms, and outpatient clinics. At the base of the building is a 600 sqm double-height principal laboratory.
STUDY TOUR 2: LONDON (Maximum 25 participants)

The Ark, Noah’s Ark Children’s Hospice (pictured top left)
The Ark launched in September 2019 as a highly sustainable facility for Noah’s Ark. It’s designed by Squire & Partners to support children with life-limiting or life-threatening conditions, and their families. Situated in a 7.5-acre nature reserve in Barnet, the Ark is the first new hospice building in London for 10 years. The brief sought an inspiring space for palliative care, relaxation and adventure in a ‘home from home’ environment. The aim was to create an uplifting environment for children to be children, not just patients, and encourage young people and their families to connect with others facing similar challenges. Establishing a relationship with the surrounding landscape was a priority, as well as providing a focal point for social interaction.

Kantor Centre of Excellence: Anna Freud Centre and Pears Family School (pictured top right)
Designed by Penoyre & Prasad, the Kantor Centre of Excellence is a 3200m² part new-build, part-refurbishment project located on a restricted site near London’s King’s Cross. It’s the first centre of excellence for children and young people’s mental health in England, and it represents an exciting new era for the Anna Freud Centre charity, bringing together clinical practice, research and policy under one roof. At the heart of the centre, the Pears Family School provides support for children aged 5-14, who have been excluded from mainstream school with serious and behavioural issues related to their mental health, and their families. With this intensity of use and the often-vulnerable state of mind of the young people accessing services, it was critical to create spaces that reassured, soothed and inspired building users and visitors. The architects worked closely with renowned designer Ilse Crawford to develop a common language flowing from architecture through interiors and visa-versa. Both practices brought to bear their focus on the needs of building users to drive design solutions and a visual sensibility specific to this collaboration.

STUDY TOUR 3: LIVERPOOL (Maximum 25 participants)

The Clatterbridge Cancer Centre (pictured top left)
Designed by BDP, this new £128m facility in Liverpool will be the city’s first dedicated cancer hospital. Sharing the same health campus as the new Royal Liverpool Broadgreen University Hospital once complete, it will reap the benefit of FM, clinical, surgical and critical care connections. The 11-storey building incorporates six radiotherapy Linac treatment suites at its lower ground level with soft space to add two more. The centre will also provide specialist chemotherapy and other drug therapies and services. A feature of the building is the set-back cantilever form over the entrance, and the sunken landscape court, which creates a covered winter garden. The building also steps back at its upper levels, creating external terrace space for wards and, especially for the chemotherapy floor, offering panoramic views across Liverpool.

Alder Hey Children’s Hospital: Institute in the Park (pictured top right)
Alder Hey Children’s Hospital, by BDP, reflects the specifications of the children who helped steer the design from its inception – in particular, the desire to maintain contact with nature while in the hospital. Featuring green roofs and gardens, the park wraps itself over and around the building. Completed in summer 2018, the ‘Institute in the Park’, by Hopkins Architects, is built on the site of the old hospital, adjacent to the Children’s Hospital. This new research and education building houses a mix of spaces – including research and teaching laboratories, offices, meeting rooms, lecture theatres, and breakout spaces. Finished the same year, the Alder Centre, designed by Alford Hall Monaghan Morris, provides bereavement counselling for families who have had a child pass away, as well as a national telephone helpline and general counselling for hospital staff. A series of rooms configured like a big house offer a familiar place for parents to meet, talk, grow things, and have a cup of tea. And a large communal space sits at the centre, with a lounge and kitchen from which seven counselling rooms unfold, each with their own private garden.

Agendas for study tours may be subject to change, owing to issues beyond the organisers’ control. For the most up-to-date information, please visit www.europeanhealthcaredesign.eu
For online registration and fees, please visit [www.europeanhealthcaredesign.eu](http://www.europeanhealthcaredesign.eu).

Special early-bird discounts are available until 8 April 2020 for public-sector delegates or members of Architects for Health.

For exhibition and sponsorship enquiries, contact info@europeanhealthcaredesign.eu.

For further enquiries on the event programme, sponsorship or exhibition opportunities, contact: SALUS Global Knowledge Exchange

T: +44 (0)1277 634176  E: info@europeanhealthcaredesign.eu

[www.europeanhealthcaredesign.eu](http://www.europeanhealthcaredesign.eu)