Our objective in 2020 is therefore clear: to construct a comprehensive narrative for sustainable design in the new context of a global public health emergency. Actors at all levels need to construct a comprehensive design narrative for the sustainable development of population-based health systems.

This year, owing to the pandemic, the 6th Annual European Healthcare Design 2020 Congress, Awards & Exhibition takes place over five days (14-18 September 2020) in an exclusively virtual setting. The disruption has been considerable but, as organisers, Architects for Health and SALUS Global Knowledge Exchange are excited by the prospect of extending access to world-leading research, practice and policy thinking in the healthcare design field to a global audience remotely at a time when it’s needed more than ever before.

Healthcare is now 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 a population-based health system has responsibilities to planetary health that extend beyond care delivery. A fundamental transformation in service models is required. This carries significant risk because prescriptive and top-down changes to complex systems have unintentional consequences, which are often more disruptive than a reform's primary objectives.

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.1 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? How do we increase the resilience of services while reducing their impact on the environment?

Digital connectivity provides a framework by which healthcare networks can 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.

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, transport and social support. 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. If we adopt a circular economic model then any healthcare building should be capable of alternative future use and fulfill a greater role in the public realm. And more extreme climates will require buildings designed to be climate adaptable, very low- or zero-carbon, and energy efficient. Active buildings can integrate renewable energy technologies for heat, power and transport as components of an active healthcare network integrated into the smart city.

The future will also see investment in greening our cities, communities and health buildings.

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1. Services include both direct, indirect, and overhead services. Direct services are those that directly provide patient care, while indirect services support the direct services. Overhead services are those that support both direct and indirect services.
Healthcare design post COVID-19

The impact of COVID-19 on healthcare design will be felt for years. In some cases, the pandemic will accelerate trends already in play prior to the crisis, such as the need for infrastructure to be adaptable to changing needs, closer co-ordination of primary and secondary care, and delivery of health services via digital technology. In other ways, COVID-19 has raised new design issues. For example, designing in surge acute and critical care capacity, supporting the mental health of patients and health workers, the impact of social isolation and health inequalities, and resourcing staff with proper medical equipment and PPE.

European Healthcare Design 2020 features five days of streams, comprising nearly 60 sessions of talks, panel discussions and workshops. The first three days (14-16 September) will include two streams running alongside each other, as well as a third stream of poster presentations. On days four and five (17-18 September), there will also be three streams: one dedicated to the new COVID-19 Global Summit on Healthcare Design: A New Paradigm (the programme for which will be announced in August); one continuing the presentations from EHD2020; and the third devoted to the European Healthcare Design Awards 2020 shortlisted projects. Every day between 13:00 and 13:30, we will also be hosting an ‘Innovation showcase’ for exhibitors in the virtual ‘Expo area’. And to conclude the congress, day five (18 September) will culminate with a virtual ceremony to present the EHD2020 Awards. Please note that all times in the programme are British Summer Time (BST).

For details about online registration and sponsorship opportunities, please go to page 20 of this programme.

KEYNOTE SPEAKERS

DR JENNIFER DIXON
Chief executive, The Health Foundation, UK

DR HOWARD FRUMKIN
Professor emeritus, University of Washington School of Public Health, USA

LORD NIGEL CRISP
Independent crossbench member of the House of Lords; Co-chair, All-Party Parliamentary Group on Global Health, UK

DR NICK WATTS
Executive director, Lancet Countdown, UCL; Chair, NHS Net Zero, UK

SONIA ROSCHNIK
Global climate policy director, Health Care Without Harm, UK

JOHN COOPER
EHD2020 Programme Chair
Architects for Health

MARC SANSON
Director
SALUS Global Knowledge Exchange
In direct response to the pandemic, we are excited to announce the launch of the COVID-19 Global Healthcare Design Summit: A New Paradigm, fully integrated into the 6th European Healthcare Design Congress, which will now take place in a virtual setting on 14-18 September 2020.

In a matter of months, the emergence of a new human coronavirus has brought global society to a standstill, sent vibrant economies spiralling into freefall, overwhelmed and placed untold stress on health systems, and caused death, illness and despair to billions of people worldwide. As this existential shock and continuing threat to life reverberates through societies, international health systems are adapting and reshaping at speed. The direct and indirect impacts on physical and mental health will be felt for years to come.

The convergence of the dual threats of infectious disease and climate crisis requires actors at all levels of society to construct a comprehensive design narrative for the sustainable development of population-based health systems.

We are delighted to invite you to participate in the ‘COVID-19 Global Healthcare Design Summit: A New Paradigm’ to learn from, share and contribute towards a truly global dialogue around the current and future impact of the pandemic on the way healthcare systems, services and infrastructure are designed.

Set to launch in August, following completion of the Call for Papers, as an integrated addition to the existing programme for European Healthcare Design, the principal themes will include:

- Strengthening health systems’ resilience and preparedness;
- Joining up public health services with health and social care systems;
- Designing in surge acute and critical care capacity;
- The fourth wave: the population health impact of ‘lockdown’;
- Supporting healthcare workforce resilience and mental health;
- Sustainable hospital design: the architecture of adaptable infrastructure; and
- How the pandemic is accelerating innovation in digital health and technology.

**TIMETABLE OF EVENTS**

**Tuesday 28 July 2020**  
Deadline for submission of abstracts

**August 2020**  
Programme launched

**Thursday 17 September 2020**  
08.00–17.45: COVID-19 Global Healthcare Design Summit: A New Paradigm (online only)

**Friday 18 September 2020**  
08.00–16.30: COVID-19 Global Healthcare Design Summit: A New Paradigm (online only)

Please note that all times in the programme are British Summer Time (BST).
SESSION 1
Opening plenary: Designing for population and planetary health
Chair: John Cooper, Architects for Health, UK

08.45 Chair’s welcome
John Cooper, Programme chair, Architects for Health, UK

09.00 Keynote: Rescuing planetary health: the role of the health sector
Dr Howard Frumkin, Professor emeritus, University of Washington School of Public Health, USA

09.15 Keynote: Climate change and healthcare: from threat to opportunity
Dr Nick Watts, Executive director, Lancet Countdown, UCL; Chair, NHS Net Zero, UK

09.30 Keynote: Healthcare’s climate footprint
Sonia Roschnik, Global climate policy director, Health Care Without Harm, UK

09.45–10.15 Panel discussion

SESSION 2
Healthcare in harmony: designing with nature
Chair: Sue Morgan, Design Council, UK

11.30 Carbon footprint of the health sector – a global assessment
Tamer Rabie, Lead health specialist, World Bank Group, USA
Stephen Dorey, Senior environment and health specialist, World Bank Group, UK
Caroline Anitha Devadason, Consultant, World Bank Group, USA
Manfred Lenzen, Professor of Sustainability Research, University of Sydney, Australia

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

12.00 Hospitals as superorganisms: how humans, plants, microbes, viruses and other selfish entities can shape the health of our cities
Steven Ware, Architect and partner, Art & Build, France

12.15–12.45 Panel discussion

13.00–13.30 Innovation showcase – Expo area

SESSION 3
Transforming health infrastructure
Chair: Richard Mann, AECOM, UK

14.45 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 FT, UK

The UK Government’s Health Infrastructure Plan has started a new long-overdue investment in the NHS across England. However, key questions remain unanswered. Panellists will share their aspirations on sustainable development and design, the impact of COVID-19, known and potential pitfalls, procurement strategies, and lessons learnt from previous projects that inform their decisions as they steer their major projects towards having a successful impact on patient care.

15.30 A manifesto for the new UK hospital building programme
John Cooper, Programme chair, Architects for Health, UK

15.45–16.15 Panel discussion

SESSION 4
Sustainable development of major projects
Chair: Sunand Prasad, Penoyre & Prasad, UK

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

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

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

17.30 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

17.45–18.15 Panel discussion
<table>
<thead>
<tr>
<th>SESSION 5</th>
<th>The future hospital</th>
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<tbody>
<tr>
<td>Chair: Richard Cantlay, Mott MacDonald, UK</td>
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<tr>
<td>10.30</td>
<td>Integrated patient room ‘healing’ technology design – a stepwise approach</td>
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<tr>
<td>Merlijn Smits MSc, Design manager, R4heal, Radboud University Medical Center, Netherlands</td>
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<td>Harry van Goor MD, PhD, Professor of Surgical Education, Radboud University Medical Center, Netherlands</td>
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<tr>
<td>10.45</td>
<td>Conceptualisations of AI smart hospitals by experts in teamwork</td>
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<td>Johan van der Zwart, Assistant professor, Architecture &amp; Health, NTNU, University of Science and Technology, Norway</td>
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<tr>
<td>11.00</td>
<td>Bringing proton-beam therapy to UK patients</td>
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<td>John McIntosh, General manager, Rutherford Estates, UK</td>
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<td>Kevin Turnbull, Director, JDDK Architects, UK</td>
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<td>Mura Mullan, Director, JDDK Architects, UK</td>
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<tr>
<td>11.15</td>
<td>Advancing technology versus architectural and environmental design</td>
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<tr>
<td>Emma Smyth, Architect, HDS Architects, UK</td>
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<td>Richard Lavine, Director, HDS Architects, UK</td>
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<tr>
<td>11.30–12.00</td>
<td>Panel discussion</td>
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<tr>
<th>SESSION 6</th>
<th>Neuroscience and navigation</th>
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<tr>
<td>Chair: Eve Edelstein, Clinicians for Design, USA</td>
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<tr>
<td>13.45</td>
<td>Evaluating and optimising wayfinding in healthcare settings through biometric data and virtual-response testing</td>
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<tr>
<td>Saleh Kalantari, Assistant professor, Cornell University, USA</td>
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<td>Robin Smell, Principal, Parkin Architects, Canada</td>
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<tr>
<td>14.00</td>
<td>Empowerment through digital wayfinding solutions</td>
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<tr>
<td>Steinar Valade-Amland, Head of strategy and business development, Triagonal Information Design, Denmark</td>
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<td>Peter Donner, Partner, director, Triagonal Information Design, Denmark</td>
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<tr>
<td>14.15</td>
<td>Human-responsive healthcare buildings and neuroscience</td>
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<tr>
<td>Davide Ruzzon, Director, Lombardini22 Milan; NAAD Master, IUAV University of Venice, Italy</td>
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<td>14.30–15.00</td>
<td>Panel discussion</td>
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<th>SESSION 7</th>
<th>Designing for clinical research</th>
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<tr>
<td>Chair: Christine Chadwick, Cannon Design, Canada</td>
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<tr>
<td>15.30</td>
<td>Human-centred design for tomorrow’s healing environments</td>
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<tr>
<td>Clark Miller, Managing principal; Dr Eve Edelstein, Director of Human Experience Lab; Emily Bateman, Project manager, Perkins and Will, USA</td>
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<tr>
<td>15.45</td>
<td>Clinical research facilities – facilitating the realisation of population health</td>
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<tr>
<td>Niraj Dangoria, Associate dean, Stanford University School of Medicine, USA</td>
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<tr>
<td>16.00</td>
<td>Reimagining clinical and research environments as a shared urban experience</td>
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<td>Gavin Henderson, Principal director, Stanton Williams Architects, UK</td>
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<tr>
<td>16.15–16.45</td>
<td>Panel discussion</td>
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<tr>
<th>SESSION 8</th>
<th>Future visions: Surgical, emergency and ward design</th>
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<tr>
<td>Chair: Hank Adams, HDR, USA</td>
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<tr>
<td>17.15</td>
<td>The surgery unit of the future: an experimental prototype</td>
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<tr>
<td>Ana Lucia Morales Tarazone, Architect, LAHB, Spain</td>
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<td>17.25</td>
<td>Clinical scenario-driven approach of design and technology at the normal ward</td>
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<td>Harry van Goor, Professor of Surgery and Innovation, Radboud University Medical Centre; Geert Visker, Digital coach, service designer, Full2Inspire, Netherlands</td>
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<td>17.35</td>
<td>What do care partners find important in a surgery centre waiting room?</td>
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<tr>
<td>Anjali Joseph, Professor; Endowed chair, Center for Health Facilities Design and Testing; Roxana Jafarifiroozabadi and Rutali Joshi, Graduate assistants, doctoral candidates, Clemson University, USA; Deborah Wingler, Vice-president, health research lead, HKS Architects, USA</td>
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<tr>
<td>17.45</td>
<td>Designing the physician workspace to support handovers in the ED</td>
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<td>Rutali Joshi, Dental candidate; 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</td>
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<tr>
<td>17.55</td>
<td>Novel design research methodologies for understanding space</td>
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<td>Bella Shah Nagappan, Resident physician; Ben Bassin, Assistant professor, Emergency Medicine; Cenral Sozener, Associate professor, Emergency Medicine, University of Michigan, USA</td>
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<td>18.05</td>
<td>Renovating for planetary health: reducing the impact of surgical services on the climate</td>
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<td>Shelly Fleck, Director, surgical services; Dr Kelly Lefaivre and Dr Peter Gooderham, Surgeon leads, Vancouver General Hospital, Canada; Knut Boeck, Principal, DYS Architecture, Canada</td>
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<tr>
<td>18.15–18.45</td>
<td>Panel discussion</td>
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### SESSION 9
**Healthcare at home and in the community**

**Chair:** Femke Feenstra, Gortemaker Algra Feenstra Architects, Netherlands

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>14.30</td>
<td>Delivering chronic condition preventive and self-management support interventions through physiology-centred healthcare design in public spaces: community chronic care capsules</td>
<td>Eva Hernandez-Garcia, Architect MSc, University of Barcelona, Spain</td>
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<tr>
<td>14.40</td>
<td>A safe home is still a home</td>
<td>Diane Chandler, Lead occupational therapist, Sussex Partnership Foundation NHS Trust, UK Audrey Yong, Senior lecturer, occupational therapy, Brighton University, UK</td>
</tr>
<tr>
<td>14.50</td>
<td>CU@Home – proactively managing safe transitions to home after joint replacement surgery</td>
<td>Anjali Joseph, Professor, Endowed chair, Director, Center for Health Facilities Design and Testing, Clemson University, USA Sahar Mihandoust, Research Assistant Professor, Architecture &amp; Health, Clemson University, USA Lisa Hoskins, Graduate assistant, Architecture &amp; Health, Clemson University, USA</td>
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<td>15.00–15.30</td>
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### SESSION 10
**Design quality: Culture and communication**

**Chair:** Gary Hamilton, WSP, USA

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>16.00</td>
<td>Hospitals should make you feel better</td>
<td>Ivan Harbour, Senior partner, Rogers Stirk Harbour + Partners, UK Steve Martin, Associate partner, Rogers Stirk Harbour + Partners, UK</td>
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<tr>
<td>16.10</td>
<td>Designing for cultural sustainability: development of a toolkit to support the design of culturally sustainable healthcare environments</td>
<td>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</td>
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<tr>
<td>16.20</td>
<td>Health in the built environment – new systems to bridge architecture and medicine</td>
<td>Timothy D Rossi, Founder, Architectural Medicine, USA</td>
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<td>16.30</td>
<td>How we can use graphic communication sustainably to aid the user journey within a UK hospital</td>
<td>Alex Harrington, Graphic designer and researcher, UK</td>
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<th>Time</th>
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<td>16.40–17.10</td>
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**SESSION 11**  
The health gap: building a healthy and health-creating society  
Chair: Chris Liddle, HLM, UK

- **09.00**  
  **Keynote: Health is made at home, hospitals are for repairs**  
  Lord Nigel Crisp, Independent crossbench member of the House of Lords; Co-chair, All-Party Parliamentary Group on Global Health, UK

- **09.20**  
  **Keynote: The stalling of life expectancy and the increasing health gap: what to do?**  
  Jennifer Dixon, Chief executive, The Health Foundation, UK

- **09.40–10.10**  
  **Panel discussion**

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**SESSION 12**  
Population health in practice  
Chair: Paul Bell, Ryder, UK

- **11.15**  
  Healthcare in placemaking: putting population health needs at the heart of regeneration  
  Helen Revitt, Regional director, AHR, UK  
  Alison Evans, Regional director, AHR, UK

- **11.30**  
  Reshaping primary care  
  Jason Pearson, Director of healthcare and science architecture, AECOM, UK  
  Jack Dunmore, Strategic estates manager, NHS WEL CCGs – Newham, Tower Hamlets and Waltham Forest, UK

- **11.45**  
  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

- **12.00**  
  Redefining the shape and form of health systems – the new Healthcare Centre Holstebro, Denmark  
  Birgitte Ernst, Partner, Arkitema Architects, Denmark

- **12.15–12.45**  
  **Panel discussion**

- **13.00–13.30**  
  Innovation showcase – Expo area

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**SESSION 13**  
Integrating care in the community  
Chair: John Cooper, Architects for Health, UK

- **15.00**  
  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

- **15.15**  
  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 FT, UK

- **15.30**  
  Redesigning systems of health: human-centred, participatory and systems-mindmed approaches to co-designing community health initiatives  
  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

- **15.45**  
  Adapting interactive web-based healthcare services (e-health) for elderly population  
  Noemi Bitterman, Chair, medical design, Technion, Israel

- **16.00–16.30**  
  **Panel discussion**

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**SESSION 14**  
The hospital in the city  
Chair: Kevin Cassidy, WSP, Canada

- **17.00**  
  Royal St: better health and wellbeing for people through an evidence-based, outcome-focused approach  
  Katie Wood, Director; Angela Crowther, Associate, Arup, UK

- **17.15**  
  Focusing on population health through a living design framework  
  Basak Alkan, Senior urban designer, senior associate, Perkins and Will, USA

- **17.30**  
  The patient’s medical home – theory into practice: a frontline experience  
  Colleen McKinstry, Healthcare consultant, principal/co-owner; Stacey Strilchuk, Healthcare consultant, principal/co-owner, 143 HealthCARE Consulting, Canada

- **17.45–18.15**  
  **Panel discussion**
SESSION 15
Multi-disciplinary and participatory design
Chair: David Martin, Stantec, UK

08.00
Tall hospitals
Regina Kennedy, Associate; Tina Nolan, Director, ETL, UK; Paul Johnson, Director, BDP UK; Bob Klaber, Consultant general paediatrician, Imperial College Healthcare NHS Trust, UK

08.15
Empowering patients with self-serving logistics
Thomas Strecker Leitner, Market director, hospital logistics – Nordics and UK, Ramboll Denmark, Denmark
Kristian Bille, Logistics consultant, Capital region of Denmark, Denmark

08.30
Shaping sustainable health infrastructure through participatory design
Jane Carthey, Doctoral student, Queensland University of Technology, Australia

08.45–09.15
Panel discussion

SESSION 16
Art & Design Studio Workshop
Facilitators: Louisa Williams, Director, Art in Site, UK
Martin Jones, Director, Art in Site, UK
Peter Shenai, Creative strategist, Art in Site, UK

10.30–12.30
Collaborating with a collective of partners, art studio Art in Site will curate a programme of activities and interactive exhibits, 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 creative.

The programme will focus on the practicalities of successful art and design in healthcare projects: What kinds of processes work well for which healthcare context? How can healthcare practitioners get such projects started? Which kinds of artists and designers are suited to which healthcare context, and why? What are some of the best formats for running arts and interiors engagement? How can innovation in materials and techniques help art seize on the opportunities of the healthcare space, rather than being limited by compliancy standards?

SESSION 17
Designing for critical care and surgery
Chair: Ganesh Suntharalingham, Intensive Care Society, UK

14.30
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

14.45
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

15.00
Present-day challenges of integration and control for the operating theatres of the future
Adrian Hall, Chief operating officer, Brandon Medical Co, UK

15.15–15.45
Panel discussion

SESSION 18
Research-based changes for COVID-19 healthcare facilities
Facilitators: Eve Edelstein, Clinicians for Design, USA; Dr Diana Anderson, Clinicians for Design, USA; Dr Anita Honkanen, Stanford University, USA
Panel: Dr Ruth Fanning, Stanford University, California, USA; Dr Emma Stockton, Great Ormond Street Hospital, UK; Paul Greig, University of Oxford, UK; Adrian Upex, Bristol Royal Hospital for Children, UK; George Tingwald, Stanford University, USA

16.15–18.00
Clinicians for Design Front-line Provider Workshop
This interactive workshop is for clinicians, designers and estates professionals who have worked at the front line of COVID-19 care, or have planned or developing innovative means to design safer healthcare facilities. Participants will discuss the challenges faced, the solutions developed, and the issues remaining to prepare for the next surge of COVID-19, or next health crisis. Presentations by doctors specialising in intensive care, emergency medicine, and anaesthesia, among others, will be followed by active discussion facilitated by members of the AIA COVID-19 Front Line Task Force and others around the world who developed new guidance for facility design that considers the latest evidence regarding how components of design influence transmission risk for providers and patients.
SESSION 19
Designing for different generations
Chair: Noemi Bitterman, Technion, Israel

10.45 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

10.55 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

11.05 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

11.15– 11.45 Panel discussion

SESSION 20
Designing for children
Chair: Davide Ruzzon, TUNED, Lombardini22, Italy

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

13.55 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

14.05 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

14.15– 14.45 Panel discussion

SESSION 21
Technology and the future of care
Chair: John Kelly, ETL, UK

15.30 Shaping the future of care
David Lewis, Partner, NBBJ, UK

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

15.50 General collective intelligence as a paradigm in healthcare
Andy E Williams, Executive director, Nobeah Foundation, USA

16.00 Cognitive design: adaptive biophilia for older hospitals
David Navarrete, Director, research initiatives, Sky Factory, USA

16.10– 16.40 Panel discussion

SESSION 22
System design to improve population health
Chair: John Cole, Queen’s University Belfast, UK

17.30 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

17.40 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

17.50 Promoting community advancement and education
James Crispino, Global practice area leader, Gensler, USA

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

18.10– 18.40 Panel discussion
SESSION 23
Designing for climate adaptation
Chair: Jonathan Erskine, Director, European Health Property Network, UK

09.00 Adapting rural health services in Victoria, Australia
Allen Kong, Director, Allen Kong Architect, Australia
Peter Birkett, CEO, Hesse Rural Health Services, Australia
Andrea Dunlop, Manager, workforce and service development, Hesse Rural Health Services, Australia

09.15 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

09.30 How to reduce whole-life carbon in a new London development
Helen Hough, Associate, Bryden Wood, UK
Martina Cardi, Associate, Bryden Wood, UK

09.45 The adaptive hospital
Dale Sinclair, Director – architecture, technical practice, AECOM, UK
Lindsey Sokolich, Deputy director of strategic development, Moorfields Eye Hospital and UCL Institute of Ophthalmology, UK

10.00–10.30 Panel discussion

SESSION 24
Healthcare’s climate footprint
Chairs: Katie Wood, Arup, UK
Kristian Steele, Arup, UK

11.00–12.30 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.

13.00–13.30 Innovation showcase – Expo area

SESSION 25
Resilient design in the circular economy
Chair: Alan Kondys, IHP and Vinci, UK

14.30 Resilient healthcare design
Gary Hamilton, Senior vice-president, WSP, USA

14.45 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

15.00 Wood in healthcare buildings, sustainable and healthy – theory and practice: 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

15.15–15.45 Panel discussion

SESSION 26
How can the healthcare industry support cities in their transformation to decarbonisation?
Panel: Suzanne MacCormick, WSP, UK
Gary Hamilton, WSP, USA

16.15–17.45 WORKSHOP
Cities consume 78 per cent of the world’s energy and produce more than 60 per cent of its greenhouse gas (GHG) emissions, while the healthcare industry contributes to 4 per cent 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.
SESSION 27
Transformation, investment and guidance
Chair: Chris Shaw, Architects for Health, UK

08.00 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

08.15 Better structured projects – a case study from building a model for healthcare delivery across a country
Conor Ellis, Head of business planning and strategy, Archus, UK
Nicola Clemo, Associate partner, Rider Levett Bucknall, UK

08.30 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

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

09.00–09.30 Panel discussion

SESSION 28
Fit for the future? Forty new hospitals
Chair: John Cole, Queen’s University Belfast, UK

10.00–11.30 The Health Infrastructure Plan (HIP) Programme
Nigel Edwards, Chief executive, Nuffield Trust, UK
Simon Corben, Director and head of profession, NHS Estates, NHS England and NHS Improvement, UK (Invited)
Richard Darch, Chief executive, Archus, UK
John Cooper, Programme chair, Architects for Health, UK

SESSION 29
Driving a greener NHS
Panel: Cameron Hawkins, NHSPS, UK
Alison Davies, NHSPS, UK
Simon Taylor, NHSPS, UK

14.00–15.30 The NHS is the UK’s largest public-sector emitter of carbon emissions and has a duty to respond to government targets, including being net carbon-zero by 2050. NHS England has recently launched its ‘Greener NHS’ campaign, and NHS Property Services is committed to making its properties more environmentally friendly. This ranges from the way they build, refurbish and update buildings, increase space utilisation, and encourage best practice among its tenants and employees. In this workshop, speakers will discuss the challenges in transforming the estate, progress to date, and future priorities.

SESSION 30
Professional education to build workforce capacity in healthcare design and planning
Chair: Evangelia Chrysikou, The Bartlett Real Estate Institute, UK

16.00–17.30 Huge population growth and associated rise in life expectancy over the last 150 years, alongside the development of new drugs and medical technologies, greater public awareness of the value of health and the emergence of chronic lifestyle diseases, had already established healthcare as the world’s largest industry before the COVID-19 pandemic. With this new challenge stimulating even greater investment into healthcare systems and infrastructure, the need to build workforce capacity in healthcare planning and design is an urgent requirement for governments and industry all over the world. This workshop, delivered by the course directors of The Bartlett Real Estate Institute’s (BREI) Healthcare Facilities MSc provides, will demonstrate the value of an integrated and interdisciplinary programme related to healthcare facilities in the widest sense, providing attendees the opportunity to learn how professional education can help build industry capacity to support all aspects of the process of creating, renewing or managing healthcare facilities, including: development and capital projects; building solutions and systems; modern economics and finance for real estate; forms of value for real estate; health systems, services and technologies.
**SESSION 31**
**Designing new models of care**

Chair: Jonathan Wilson, GB Partnerships, UK

11.30 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

11.40 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

11.50 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

12.00–12.30 Panel discussion

**SESSION 32**
**Lean and productive healthcare design**

Chair: Bill Hercules, WJH Health, USA

13.45 Production success
Li Liljeberg, Architect, LINK arkitektur, Sweden
Anna Rolf, Architect, LINK arkitektur, Sweden

13.55 ABW tool: how to ease change resistance in an activity-based working environment when planning the hospital
Teemu Kiiveri, Processes expert, Kanta-Häme Hospital District, Finland
Paula Turunen, Chief physician of the project, Kanta-Häme Hospital District, Finland

14.05 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

14.15 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

14.25–14.55 Panel discussion

**SESSION 33**
**Designing for nursing**

Chair: Marte Lauvsnes, Sykehusbygg, Norway

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

15.40 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

15.50 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

16.00–16.30 Panel discussion
The programme for the COVID-19 Global Summit on Healthcare Design will be launched in early August.
SESSION 38
Designing for mental health
Chair: Alex Caruso, Design in Mental Health Network, UK

08.30 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

08.45 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

09.00 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

09.15 Artworks for New Broadmoor Hospital
Martin Jones, Director, Art in Site, UK
Louisa Williams, Director, Art in Site, UK

09.30–10.00 Panel discussion

SESSION 39
Designing for cancer care
Chair: Karin Imoberdorf, LEAD Consultants, Switzerland

11.00 Shaare Zedek Cancer Centre, Israel
Tye Farrow, Senior partner, Farrow Partners, Canada

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

11.30 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

11.45–12.15 Panel discussion

13.00–13.30 Innovation showcase – Expo area

SESSION 40
The future of health planning
Chair: Richard Darch, Archus, UK
John Kelly, ETL, UK
Tina Nolan, ETL, UK

14.30–16.00 Professionalising health planning globally
As health systems around the world grapple with the acceleration of new technologies, COVID-19, 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 met to form a new professional body to regulate and represent health planners from around the globe, and bring rigour and professionalism to the discipline. More than 12 months on, the Health Planning Academy has been formed. This seminar will feature a panel of seasoned health planners debating how best to position the discipline to inform health policy around the world.

SESSION 41
Paradigm shifts in healthcare architecture
Chair: Brenda Bush-Moline, Stantec, USA

16.30 The future of an architecture for health
David Allison, Director of Graduate Studies in Architecture + Health / Alumni Distinguished Professor, Clemson University, USA
Edzard Schultz, Partner, Heinle, Wischer und Partner, Germany
Eva Henrich, Architect, Heinle, Wischer und Partner, Germany

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

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

17.15–17.45 Panel discussion
## SESSION 42
### Healthcare Design (Over 25,000 sqm)
**Lead judge:** Kate Copeland, Australian Health Design Council, Australia  
**Panel judges:** Simon Kydd, WSP; Bill Hercules, WJH Health, USA

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<th>Time</th>
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<td>08.00</td>
<td>Blacktown Hospital Acute Services Building, Australia</td>
<td>Jacobs</td>
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<td>08.15</td>
<td>National Centre for Infectious Diseases, Singapore</td>
<td>CPG Consultants</td>
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## SESSION 43
### Design for Adaptation and Transformation
**Lead judge:** Jim Chapman, Manchester School of Architecture, UK  
**Panel judges:** Chris Shaw, Medical Architecture, UK; Jane McElroy, NBBJ, UK

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<td>09.30</td>
<td>National Centre for Infectious Diseases (NCID) &amp; Ng Teng Fong, Centre for Healthcare Innovation (CHI), Singapore</td>
<td>CPG Consultants Pte Ltd</td>
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<tr>
<td>09.45</td>
<td>Kantor Centre of Excellence: The Anna Freud Centre and The Pears Family School, UK</td>
<td>Penoyre &amp; Prasad, Studio Ilse and Webb Yates</td>
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<td>10.00</td>
<td>Värnamo Hospital, Operation and ICU Clinic, Sweden</td>
<td>White Arkitekter</td>
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## SESSION 44
### Design Innovation for Quality Improvement
**Lead judge:** Johnathan West, Royal College of Art, UK  
**Panel judges:** Danny Gibson, MJ Medical, UK; Phil Wade, Phil Wade Business Consulting, UK

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<tr>
<td>11.45</td>
<td>Operating Room 4.0 (OR4.0), Spain</td>
<td>Mysphera</td>
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<td>12.00</td>
<td>Sensory lighting technology reducing patient stress and anxiety in the healing environment, UK</td>
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## SESSION 45
### Healthcare Design (Under 25,000 sqm)
**Lead judge:** Liesbeth van Heel, Erasmus University Medical Centre, Netherlands  
**Panel judges:** Coen van Wijngaart, archipelago architects, Belgium; Christine Chadwick, Cannon Design, Canada

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<td>13.45</td>
<td>The Ark, Noah’s Ark Children’s Hospice, UK</td>
<td>Squire &amp; Partners</td>
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<td>14.00</td>
<td>University of Cincinnati Gardner Neuroscience Institute, USA</td>
<td>Perkins and Will</td>
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<td>14.15</td>
<td>Zayed Centre for Research into Rare Disease in Children, UK</td>
<td>Stanton Williams Architects</td>
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## SESSION 46
### Interior Design and Arts
**Lead judge:** Alexandra Coulter, Arts & Health South West, UK  
**Panel judges:** Femke Feenstra, Gortemaker Algra Feenstra Architects, Netherlands; Charlotte Ruben, White Arkitekter

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<td>15.30</td>
<td>MUSC Shawn Jenkins Children’s Hospital and Pearl Tourville Women’s Pavilion, USA</td>
<td>Perkins and Will</td>
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<td>15.45</td>
<td>The Prince and Princess of Wales Hospice, UK</td>
<td>Ryder Architecture</td>
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<td>16.00</td>
<td>Zayed Centre for Research into Rare Disease in Children, UK</td>
<td>Stanton Williams Architects</td>
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DAY 5, STREAM 13: COVID-19 GLOBAL SUMMIT ON HEALTHCARE DESIGN
18 September 2020 Main stage (all times are British Summer Time; all sessions streamed exclusively online)

The programme for the COVID-19 Global Summit on Healthcare Design will be launched in early August.
DAY 5, STREAM 14: DESIGNING FOR YOUNG AND OLD
18 September 2020 Breakout session (all times are British Summer Time; all sessions streamed exclusively online)

**SESSION 51**
**Designing for older age**
*Chair: Suzanne MacCormick, WSP, UK*

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<th>Time</th>
<th>Topic</th>
<th>Speakers</th>
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<tr>
<td>09.00</td>
<td>Optimising aged care environment design evaluation</td>
<td>Lucio Naccarella, Principal research fellow, University of Melbourne, Australia</td>
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<tr>
<td>09.15</td>
<td>How can we improve hospitals with age-friendly design?</td>
<td>Laia Isern Meix, Architect, Vitaller Arquitectura, Spain, Albert Vitaller Santiró, Architect founder, Vitaller Arquitectura, Spain</td>
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<td>09.30</td>
<td>Museums at the heart of person-centred dementia care: the case of House of Memories</td>
<td>Kerry Wilson, Head of research, Liverpool John Moores University, UK, Carol Rogers, Executive director, National Museums Liverpool, UK</td>
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<td>09.45-10.15</td>
<td>Panel discussion</td>
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**SESSION 52**
**New models of design and evaluation**
*Chair: Göran Lindahl, Chalmers University, Sweden*

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<th>Time</th>
<th>Topic</th>
<th>Speakers</th>
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<td>13.00-13.30</td>
<td>Innovation showcase – Expo area</td>
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<td>13.45</td>
<td>Multigenerational models of mental health design to support normalised living</td>
<td>Mark Carter, Director, Ryder Architecture, UK, Victor Muniz, Associate, Ryder Architecture, UK</td>
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<tr>
<td>14.00</td>
<td>Reconciling LEED and salutogenic attributes in residential care environments for the aged: Part II literature review and metric typology</td>
<td>Stephen Verderber, Professor, University of Toronto, Canada, Terri Peters, Assistant professor, Ryerson University, Canada</td>
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<td>14.15</td>
<td>Design as a factor of behaviour change</td>
<td>Prof. Levkovitz Yechiel, Deputy director, Beer Yaakov / Ness Ziona Mental Health Centre, Israel, Dalia Shilony, Independent interior designer, Israel, Shlomit Rotman laor, Project manager, Beer Yaakov / Ness Ziona Mental Health Centre, Israel</td>
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<td>14.30-15.00</td>
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**SESSION 53**
**Designing for women and children**
*Chair: Stephanie Williamson, Guy’s and St Thomas’ NHS Foundation Trust, UK*

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<th>Time</th>
<th>Topic</th>
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<tr>
<td>15.30</td>
<td>Redefining paediatric healthcare services in Northern Greece in the context of the Stavros Niarchos Foundation Health Initiative</td>
<td>Moritz Spellenberg, Associate, Llewelyn Davies, UK, Deirdre Foley Wood, Director, ETL, UK</td>
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<td>15.45</td>
<td>Don’t just design another hospital ward – respectful design for respectful maternity care</td>
<td>Dr Sarah Joyce, ESRC postdoctoral fellow and practising architect, University of Leeds, UK</td>
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<td>16.00</td>
<td>Protecting the most vulnerable: NICU design as a population health imperative</td>
<td>Francesca 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</td>
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<td>16.15-16.30</td>
<td>Panel discussion</td>
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<td>SESSION 54</td>
<td>Design for Health and Wellness</td>
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<td><strong>Lead judge:</strong> Dr Liz Paslawsky, SALUS Global Knowledge Exchange, Australia</td>
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<td>Panel judges: Jonathan Wilson, GB Partnerships, UK; Eve Edelstein, Perkins and Will, USA</td>
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<td><strong>08.00</strong></td>
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<td><strong>08.15</strong></td>
<td>The Prince and Princess of Wales Hospice, UK</td>
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<td>Ryder Architecture</td>
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<td><strong>08.30</strong></td>
<td>Sint Maartenskliniek, Netherlands</td>
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<td>EGM architects</td>
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<td><strong>08.45</strong></td>
<td>Zayed Centre for Research into Rare Disease in Children, UK</td>
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<td><strong>09.00–09.30</strong></td>
<td>Panel discussion</td>
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<th>SESSION 55</th>
<th>Design Research</th>
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<tr>
<td><strong>Lead judge:</strong> Jonathan Erskine, European Health Property Network, UK</td>
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<td>Panel judges: Goran Lindahl, Chalmers, Sweden / Tampere Technical University, Finland</td>
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<td><strong>10.00</strong></td>
<td>Shortlisted Paper 1 (to be announced)</td>
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<td><strong>10.15</strong></td>
<td>Shortlisted Paper 2 (to be announced)</td>
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<td><strong>10.30–10.50</strong></td>
<td>Panel discussion</td>
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<th>SESSION 56</th>
<th>Mental Health Design</th>
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<tbody>
<tr>
<td><strong>Lead judge:</strong> Alice Liang, Montgomery Sisam, Canada</td>
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<tr>
<td>Panel judges: Marte Lauvsnes, Sykehusbygg, Norway; Brenda Bush-Moline, Stantec, USA</td>
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<tr>
<td><strong>12.00</strong></td>
<td>Thomas Embling Hospital – Secure Psychiatric Intensive Care Unit, Australia</td>
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<td></td>
<td>MAAP and Design Inc</td>
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<tr>
<td><strong>12.15</strong></td>
<td>Belfast Acute Mental Health Inpatient Hospital, UK</td>
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<td></td>
<td>RPP Architects</td>
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<tr>
<td><strong>12.30–12.50</strong></td>
<td>Panel discussion</td>
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<tr>
<th>SESSION 57</th>
<th>Health and Life Sciences Research</th>
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<tbody>
<tr>
<td><strong>Lead judge:</strong> David Powell, Velindre Cancer Centre; Alder Hey Children’s Hospital, UK</td>
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<tr>
<td>Panel judges: Karin Imoberdorf, LEAD Consultants, Switzerland; Tye Farrow, Farrow Partners, Canada</td>
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<tr>
<td><strong>14.00</strong></td>
<td>German Cancer Research Centre Heidelberg, Research &amp; Development Centre for Imaging &amp; Radio-oncology, Germany</td>
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<td></td>
<td>Heinle, Wischer and Partner Freie Architekten</td>
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<tr>
<td><strong>14.15</strong></td>
<td>University of Cincinnati Gardner Neuroscience Institute, USA</td>
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<td></td>
<td>Perkins and Will</td>
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<tr>
<td><strong>14.30</strong></td>
<td>Zayed Centre for Research into Rare Disease in Children, UK</td>
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<tr>
<td></td>
<td>Stanton Williams Architects</td>
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<tr>
<td><strong>14.45–15.15</strong></td>
<td>Panel discussion</td>
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<tr>
<th>SESSION 58</th>
<th>Future Healthcare Design</th>
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<tbody>
<tr>
<td><strong>Lead judge:</strong> Cliff Harvey, Union of International Architects’ Public Health Group, Canada</td>
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<tr>
<td>Panel judges: Paul Bell, Ryder, UK; Hank Adams, HDR, USA</td>
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<tr>
<td><strong>15.45</strong></td>
<td>Expansion University Hospital, Germany</td>
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<td></td>
<td>HENN + C.F. Møller Architects</td>
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<tr>
<td><strong>16.00</strong></td>
<td>Redemption Hospital: Caldwell, Liberia</td>
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<tr>
<td></td>
<td>MASS Design Group</td>
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<tr>
<td><strong>16.15–16.30</strong></td>
<td>Panel discussion</td>
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<thead>
<tr>
<th>SESSION 59</th>
<th>Awards ceremony</th>
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<tr>
<td><strong>Chair:</strong> John Cooper, Programme chair, Architects for Health, UK</td>
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<tr>
<td><strong>16.45–17.30</strong></td>
<td>European Healthcare Design Awards 2020 ceremony</td>
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<td>Main stage</td>
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DESIGN INNOVATION SHOWCASES

Design thinking and innovation are the foundational premise of the European Healthcare Design Congress. The success of the design of a health system or service, of a product or technology, or of the architecture of a hospital or health centre, is determined largely by the design thinking, principles and insights applied.

At the beginning of the COVID-19 pandemic, the healthcare industry alongside other industries demonstrated remarkable capacity for rapid innovation in response to urgent need and demand. From the development of field hospitals and the adaptation and conversion of existing healthcare facilities, stadiums, hotels and conference centres to the design, manufacture and supply of ventilators, face shields and visors, and other PPE, all over the world public- and private-sector organisations came together in partnership to innovate and save lives.

How do we continue to capture and stimulate that capacity for innovation? Held between 13.00–13.30 BST on each of the five days of the virtual European Healthcare Design 2020 Congress, the innovation showcases are a celebration of design innovation in healthcare. The showcase programme will be launched in mid August 2020 and updated in this programme and at www.europeanhealthcaredesign.eu

ATTENDEE REGISTRATION

Presented in its new virtual format from 14-18 September, the 6th European Healthcare Design 2020 (EHD 2020) Congress and Awards, including the inaugural COVID-19 Global Healthcare Design Summit, is the world’s leading forum for the exchange of knowledge on the relationship between research and health policy and practice within the field of healthcare design.

Congress attendees will develop their knowledge of the political, social, economic and environmental context, emerging practice, skills and core competencies in designing and commissioning health services, technology and infrastructure, project management, and the evidence base for healthcare design, sustainable development and quality improvement.

With access to over 200 talks, workshops, poster and award presentations, and more than 25 virtual exhibitions – as well as the ability to create your own personal profile and network via live chat and messaging, and video meetings – attendees will enjoy a unique professional development and networking experience with colleagues in the healthcare design field from all over the world at accessible prices.

A range of ticket types is available, giving attendees from all over the world great value for money. Attendee registration is available at www.europeanhealthcaredesign.eu at the following rates:

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<tr>
<th>Region</th>
<th>1 day</th>
<th>5 days</th>
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<tr>
<td>UK</td>
<td>£75 + VAT</td>
<td>£195 + VAT</td>
</tr>
<tr>
<td>Rest of the World</td>
<td>£75</td>
<td>£195</td>
</tr>
<tr>
<td>Early bird</td>
<td>£65 + VAT</td>
<td>£185 + VAT</td>
</tr>
<tr>
<td>Standard rates</td>
<td>£95 + VAT</td>
<td>£245 + VAT</td>
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Please apply for your discount code at info@europeanhealthcaredesign.eu. Please note that a discount code may only be used once by the same user.

Virtual Sponsorship package, including virtual exhibition booth: £6000

- Branding on EHD website, event literature and digital newsletters
- Branding on all EHD and SALUS social channels
- Company profile, logo and web/social links in virtual event hub
- Session sponsorship in EHD 2020 or COVID-19 Global Summit programme
- 1-year annual membership of SALUS
- Branding on virtual event lobby carousel
- Live streaming webinar facility
- Pre-recorded promotional video
- Live chat and 1-2-1 video meets
- 8 x full-event 5-day delegate passes (or equivalent 1-day passes)
- Digital briefcase – corporate and product literature
- Qualified audience analytics and lead manager
- Event offer option for delegates

Virtual Exhibitor package: £3500

- Branding on EHD website, event literature and digital newsletters
- Branding on all EHD and SALUS social channels
- Company profile, logo and web/social links in virtual event hub
- Innovation showcase – live streaming webinar facility
- Pre-recorded promotional video
- Live chat and 1-2-1 video meets
- 4 x full-event 5-day delegate passes (or equivalent 1-day passes)
- Digital briefcase – corporate and product literature
- Qualified audience analytics and lead manager
- Event offer option for delegates

SPONSORSHIP AND VIRTUAL EXHIBITION

We are grateful for the fantastic support we have received from all of our sponsors and exhibitors in the transition this year from an ‘in person’ to a virtual event. The recognition that the expert knowledge and content delivered and shared at European Healthcare Design each year are more valuable and relevant than ever during and beyond the pandemic has allowed us to increase access to many more design and healthcare practitioners, researchers and policy thinkers worldwide.

To provide your support and build your knowledge brand as part of this global healthcare design partnership, learning environment and community, please review the packages below and contact Marc Sansom at marc@salus.global
THE PROGRAMME 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, Director of design and development, Guy’s and St Thomas’ NHS FT

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

Davide Ruzzon
Director of TUNED, Lombardini22, Italy

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

Ganesh Suntharalingam MB BChir
President, Intensive Care Society, UK

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

Charlotte Ruben
Partner, White Arkitekter, Sweden

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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

Christine Chadwick
Consultant, Cannon Design, 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
Dochitect, Geriatric fellow at UCSF Medical Center, USA

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

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
For online registration and fees, please visit www.europeanhealthcaredesign.eu
Special early-bird discounts are available until 3 September 2020 for members of Architects for Health
For exhibition and sponsorship enquiries, contact info@europeanhealthcaredesign.eu