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HEALTHY CITY DESIGN INTERNATIONAL

RESEARCH • POLICY • PRACTICE

11-14 OCTOBER 2021

VIRTUAL

FINAL PROGRAMME

BACK FROM THE BRINK

DESIGNING FOR CLIMATE, COMMUNITY AND SOCIAL VALUE

Register at: <https://HCD2021.hubilo.com> | info@salus.global



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Design leaders



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Event partners



Timetable of events

August 2021

Launch of Preliminary Programme and online registration

1 October 2021

Extended deadline for Early Bird registration and the deadline for full written papers for publication at www.salus.global

Monday 11 October 2021

08.45-18.00 Healthy City Design 2021 International Congress

Tuesday 12 October 2021

08.45-18.00 Healthy City Design 2021 International Congress

Wednesday 13 October 2021

08.45-18.00 Healthy City Design 2021 International Congress

Thursday 14 October 2021

09.00-18.00 Healthy City Design 2021 International Congress

Please note that all times in the programme are British Summer Time (BST).

BACK FROM THE BRINK: DESIGNING FOR CLIMATE, COMMUNITY AND SOCIAL VALUE

City centres emptied, working patterns and supply chains disrupted, and urban communities struggling under unprecedented economic and psychological pressures. The coronavirus crisis has shone a harsh light over the urban landscape, revealing the deep scars of health and social inequalities as some citizens fared far worse than others. Healthy City Design International 2021 will explore how we can bring our cities 'back from the brink' in a green, fair, inclusive and progressive way.

Our cities stared into the abyss during the global pandemic. The concentration of people, resources and networks that gives the urban realm its raison d'être was challenged to its core by the effects of Covid-19.

For urban planners, architects, policymakers and public health professionals now charged with picking up the pieces and formulating a coherent approach to developing the post-Covid-19 city, there are important design issues to address. We see these as relating to three key areas: climate, community and social value.

A series of lockdowns in cities took cars off the streets and planes out of the skies. Air quality improved, more cycle lanes were introduced, and more green spaces. There is now a broad consensus that there should be no retreat in the aftermath of the pandemic from the ecological gains made during it. We want to make our cities healthier and more sustainable places in which to live and work. But how can we can rev up the economic machine again without undermining our ambitions in relation to climate change? What urban development, regeneration and mobility strategies would best serve all our interests?

As Britain looks ahead to hosting the COP26 UN Climate Change conference in November 2021, cities around the world are on the frontline of the debate about sustainable futures. Issues around community also came into sharp focus during the pandemic as social and health resilience were tested to the limit. Many communities continue to suffer disproportionately from the effects of Covid-19, raising questions about diversity, inclusion and equity in cities.

The built environment is a major determinant of urban health and wellbeing outcomes, so how can the design of our homes, neighbourhoods, workplaces and transport better support community cohesion, placemaking, mental health and social resilience?

Underpinning the challenges of climate and community in cities is the idea of social value – that not all value can be measured with market metrics. Social value addresses the wider social, environmental and economic benefits of any project in relation to society; it frames the concept of value, not simply in a financial model but within a human-centric vista of accountability, collective responsibility, dignity, fairness, individual rights, respect, and quality of life. How can our



designed environment express this commitment? What research is needed to bring social value to the top of the development agenda?

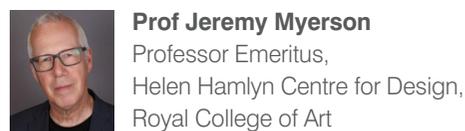
New ideas, practice and research

The 5th Healthy City Design International 2021 Congress & Exhibition (HCD 2021) will take place virtually on 11–14 October 2021. A global forum for the exchange of knowledge on the research, policy and practice of designing healthy and sustainable cities and communities, the Congress is organised by SALUS Global Knowledge Exchange in partnership with the Helen Hamlyn Centre for Design, Royal College of Art.

HCD 2021 features four days of insightful, provocative and entertaining talks, workshops and panel discussions. The first two days (11 and 12 October) will open with keynote plenary sessions before splitting up into three parallel streams. A further keynote plenary will close day one, and a final expert panel on COP26 will conclude the Congress on day four (14 October).

Delegates will be able to purchase tickets for the full four-day event or individual days at extremely attractive prices, with sessions available to watch on demand for 30 days after the event.

For details about online registration and sponsorship opportunities, please go to page 16. Please note all times in the programme are British Summer Time (BST).



Prof Jeremy Myerson
Professor Emeritus,
Helen Hamlyn Centre for Design,
Royal College of Art



Marc Sansom
Director
SALUS Global
Knowledge Exchange

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Keynote speakers



Sir Muir Gray
Director, Oxford Centre for
Triple Value Healthcare; Former
Chief Knowledge Officer, NHS
England, UK



Minnie Moll
Chief executive,
Design Council, UK



Sunand Prasad
Chair, UK Green Building
Council; Perkins & Will,
Penoyre & Prasad, UK



John Zeisel
Hearthstone Alzheimer
Care and The I'm Still
Here Foundation, USA



Lord Nigel Crisp
Independent crossbench
member, House of Lords;
Co-chair, All-Party Parliamentary
Group on Global Health, UK



Ken Greenberg
Principal, Greenberg
Consultants, Canada



Fiona Howie
Chief executive,
Town and Country
Planning Association, UK



Jeremy Myerson
Professor Emeritus, Helen
Hamlyn Centre for Design,
Royal College of Art, UK



Dan Burden
Director of innovation
and inspiration,
Bluezones, USA



Rachel Cooper
Professor of Design
Management and Policy,
Lancaster University, UK



Marcus Grant
Editor-in-chief,
Cities & Health, UK



Hugh Barton
Emeritus professor,
WHO Collaborating Centre,
UWE, UK

Register at <https://HCD2021.hubilo.com>

Keynote plenary



Session 1
Opening keynote plenary

Chair: Jeremy Myerson, Professor Emeritus, Helen Hamlyn Centre for Design, Royal College of Art, UK

08.45 **Welcome and introduction**

09.00 **Keynote address: Designing the environment for living longer better**

Sir Muir Gray, Director, Oxford Centre for Triple Value Healthcare; Former Chief Knowledge Officer, NHS England, UK

09.15 **Keynote address: Design for planet**

Minnie Moll, Chief executive, Design Council, UK

09.30 **Keynote address: The road to COP26: regenerative architecture for health**

Sunand Prasad, UK Green Building Council; Principal, Perkins&Will; Penoyre & Prasad, UK

09.45–10.15 **Panel discussion**

Stream 1: Designing for climate, community and social value



Session 2
Restorative cities

Co-chairs: Layla McCay, Centre for Urban Design and Mental Health; NHS Confederation, UK;

Jenny Roe, Center for Design + Health, University of Virginia, USA

Panel: Tim Gill, Author, UK; Colin Ellard, University of Waterloo, Canada; Jak Spencer, Urban Scale Interventions, Northern Ireland; Edward Hobson, Design Council, UK

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11.15–12.45 **Designing cities to support mental health and wellbeing**

This year's publication of Restorative Cities: Urban Design for Mental Health and Wellbeing (Bloomsbury, 2021) marks a significant development in the emerging field of urban design for mental health and provides a much-needed practical guide for policymakers and practitioners.

Bringing together the latest international research with practitioner expertise, the authors, Layla McCay and Jenny Roe will present a new evidence-based practical framework for *Designing better mental health and wellbeing into cities: the Restorative City*. This workshop will then use examples to explore some of the themes of the Restorative City: the green city; the blue city; the sensory city; the neighbourly city; the active city; the playable city; and the inclusive city.

Participants will learn about the science behind these themes and how to apply the principles in their practice, with presentations from Tim Gill, titled, *Urban playground: why children are a catalyst for healthier, greener and more joyful cities*; Colin Ellard with a talk on, *Vitality and autonomy: a conjecture about our attraction to complex facades*; and Jak Spencer, speaking about, *Creative approaches to reframe cities for wellbeing*. A panel discussion on the new framework's relevance and application will conclude the session. Participants will learn how and why to incorporate the principles in the Restorative Cities framework into their efforts.



Session 3
Integrating design and policy to support health equity in a changing climate

Chair: Jason Hartke, International WELL Building Institute, USA

Panel: Angelita Scott, Angela Loder, International WELL Building Institute, USA; Matt Trowbridge, University of Virginia; International WELL Building Institute, USA

14.30–16.00 Cities and buildings are at a crossroads. We know they play a pivotal role in addressing climate change, health and wellbeing, and creating an equitable future, but there has been much debate on how exactly to do this, and in a way that can be compared across organisations and at multiple scales. This is particularly important as many cities are struggling to keep buildings occupied, with organisations letting their workforces work from home during Covid-19.

Organisations are wondering how to effectively track their workforce's performance, engagement, health and wellbeing, both remotely and in office, while balancing reporting requirements on energy efficiency and climate change. Cities have long played this organising role to better foster and create healthier places, often charged with how best to deploy integrated solutions that concurrently advance health, sustainability, resilience and equity.

This interactive session will explore a new proposed organising framework for measuring and tracking health and wellbeing, performance, equity, and sustainability that can be applied at multiple scales. Building on our work as translators of research to practice, and our initiatives with our global research agenda pre-approved survey providers, and work on investing for health and health equity, we developed 12 competencies as an answer to the current lack of consistency and transparency in the 's' in environmental, social and governance reporting.

This session will outline the 12 competencies and their key benefits for multiple stakeholders, carry out a deep dive on how this tool can be used to address equity, and discuss how this can be used by cities, investors and the ESG community. The session will close with a discussion around the implications for research, design, equity and ESG/investing.



Session 4
Keynote plenary

Chair: Chris Liddle, HLM, UK

16.45 **Keynote address: Healthy cities for all – integrating those living with the 'disability' of dementia into our communities**

John Zeisel, Hearststone Alzheimer Care and The I'm Still Here Foundation, USA

17.00 **Keynote address: Healthy cities: addressing a triple threat**

Ken Greenberg, Greenberg Consultants, Canada

17.15 **Keynote address: A baker's dozen set of principles to achieve post-pandemic healthy, walkable, liveable communities**

Dan Burden, Bluezones, USA

17.30–18.00 **Panel discussion**


Session 5
Cities & Health: The lockdown papers

Chair: Marcus Grant, Cities & Health, UK

Panel: Helen V S Cole, Universitat Autònoma de Barcelona, Spain; Kaitlyn Gillis, Stantec, Canada; Alex Nurse, Liverpool University, UK; Caroline Brown, Heriot-Watt University, UK

10.15–
11.45

The Covid-19 lockdown papers: insights, reflections and implications for urbanism and city planning

In Spring 2020, countries began experiencing the first wave of coronavirus with many citizens living under lockdown regulations. Contributors from academia and practice provided their insights in a collection of think-pieces. Following peer review, 51 of these reached publication in a special issue of *Cities & Health* entitled 'Cities, health and Covid-19: initial reflections and future challenges'. The collection has many cross-cutting themes.

For this session several papers have been identified and selected. The panel will focus on lessons learned that address urbanism and city planning, such as transforming built environments and addressing health inequities. Participants will take part in a meaningful discussion examining lessons for healthier urban planning and city spatial governance, and discuss the problematic issues for human health and health equity in our built urban environments seen during what we now call a 'syndemic'. A syndemic refers to the multiple underlying health issues, for various communities and groups within the population, as revealed by the pandemic. Many of the papers focus on neighbourhoods and how to use design to improve community wellbeing including mental health and reduce health inequalities. They also provide commentaries and insights on issues such as mobility, communicable diseases, gentrification and environmental justice, and planetary health.

Participants will also hear a small collection of 90-second video think-pieces from other authors who have had their work published as part of the Covid-19 lockdown papers. Themes include vulnerable populations; links with non-communicable disease; and climate breakdown. The videos have been prepared to bring out the insights that we need to take forward – the how, the when and the where – of what we need to do to create the 'new normal' for population and planetary health. Issues of density, exclusion and 'new poverty' will be explored among other key questions, including: Are any lessons emerging at an international level? How can we share potential solutions between countries and between cities with similar contexts? And will we see a more health-focused turn in urban policy?


Session 6
Pandemic resilience: urban, housing and health strategies

Chair: Coen van den Wijngaart, archipelago architects, Belgium

14.00

Community connections: reshaping the resilience of urban centres

Nathalie Beauvais, HDR, USA

14.15

Public health in context: mapping non-clinical factors in Covid vulnerability – community resilience and the wellbeing of future generations

Rupert Allan, Cwm Taf Morgannwg University Health Board, UK

14.30

The role of domestic space design in supporting residents' health and wellbeing during the Covid-19 pandemic

Sem Lee, The Bartlett Faculty of the Built Environment, University College London, UK

14.45–15.15 **Panel discussion**



Session 7

Hospitals as anchors for community health

Chair: Richard Darch, Archus, UK

-
- 13.00** **Building a brighter future for Whipps Cross**
David McMahon, Ryder Architecture, UK
-
- 13.15** **From Nightingale and Maggie to Maia**
Johan van der zwart, University of Twente, Netherlands
Nirit Pilosof, University of Cambridge, Israel
Femke Feenstra, gortemaker algra feenstra, Netherlands
Andrea Möhn, Andrea Mohn Architects, Netherlands
-
- 13.30** **Symbiosis between the city and the academic hospital**
Mike Apple, Rob Blue, Jon Crane, Jeri Brittin, HDR, USA
-
- 13.45** **Building wellness – integrating health and care at a regional, neighbourhood and building level**
Dan Gibson, M J Medical, UK
Prachi Rampuria, EcoResponsive Environments, UK

14.00–14.30 Panel discussion



Session 8

Designing healthy streets

Chair: Beau Herr, CallisonRTKL, USA

-
- 15.00** **Health on the high street**
Karen Smith, Paul Styler, Kelsey Price, ETL, UK
-
- 15.15** **Revisiting design for 'health in place': what post-pandemic healthy places really need**
Geoff Southern, IBI Group, UK
-
- 15.30** **A journey from healthy cities to healthy streets: case of Çankaya, Ankara, Turkey**
Sertac Erten, Arup, Turkey
Salvatore Settecasi, Arup, Italy
-
- 15.45** **Integrating health, care and placemaking – re-imagining Great Ormond Street**
Magali Thomson, Great Ormond Street Hospital, UK
Scott Carroll, LDA Design, UK

16.00–16.30 Panel discussion

Keynote plenary



Session 9

Planning reform in the UK: Design for people and planet

Chair: Oliver Jones, Ryder Architecture, UK

Keynotes: Nigel Crisp, Independent crossbench member, House of Lords; Co-chair, All-Party Parliamentary Group on Global Health, UK; Fiona Howie, Chief executive, Town and Country Planning Association, UK

Panel: Jeremy Porteus, Chief executive, Housing LIN, UK; Cat Drew, Chief design officer, Design Council; Helen Pineo, UCL Institute for Environmental Design and Engineering, UK; Michael Chang, Public Health England, UK; Katja Stille, Tibbalds, UK

08.45–10.15

The long-anticipated Planning Bill has been paused following the appointment of a new housing secretary. The bill had been set to create a root-and-branch shake-up of the UK's planning system, following a number of proposals in last year's consultation on the 'Planning for the Future' White paper.

Plans to refocus local plans, introduce zoning of land and design codes, and a new infrastructure levy were set to feature in the new controversial Bill, but have been paused following fierce criticism and fears that communities would be silenced and unable to prevent new housing developments.

Our panel will explore what this might mean for the Bill and what future reforms are needed to support health creation and sustainable development in our communities, addressing the challenges around poor-quality housing and neighbourhood design to create better conditions for people to lead healthier and happier lives where they can flourish.

It will also explore what the pause means for the Government's Building Beautiful Places plan, which is designed to raise the importance of good quality design and put local communities at the heart of decision-making to help shape their towns and cities.

Stream 4: Homes and neighbourhoods



Session 10

Mixed-use community regeneration

Chair: Rachel Cooper, Lancaster University, UK

11.30 Health versus high density: can we have both?

Sarah Lewandowski, ClarkeHopkinsClarke, Australia
 Andrew Curnow, Carr Design, Australia

11.45 Bringing nature back to our urban centres for a post-pandemic world

Armel Mourgue, Gillespies, UK

12.00 Transforming the brownfield: the mutation of a former gelatine factory site into a vibrant urban district driven by the principles of sustainability and wellbeing

Coen van den Wijngaert, Joost Declercq, Maarten Lambrechts, archipelago architects, Belgium

12.15 Connecting communities (digitally)

Amir Hussain, Yeme Architects, UK

12.30–13.00 Panel discussion



Session 11

Healthy communities: Tools, guidance and metrics

Chair: Mark Drane, Urban Habitats and SALUS Global Knowledge Exchange, UK

14.00 Toolbox healthy cities – strategies and tools to get it done

Mieke Weterings, Rotterdam Municipality, Netherlands

14.15 Urban Community Index – a dynamic approach to understanding the success factors of communities and neighbourhoods

Ruth Hynes, Atkins, UK

14.30 HLM Healthcheck – a new online toolkit that helps measure wellbeing

Philip Watson, Karl Brown, Neil Orpwood, HLM Architects, UK

14.45 Salutogenic city

Marcus Wilshere, The Collaborative City, UK
 Richard Mazuch, IBI Group, UK
 Liz Loughran, Line Planning, UK

15.00–15.30 Panel discussion



Session 12

Citizen perspectives on urban health

Chair: Mario Bozzo, SALUS Global Knowledge Exchange, UK

16.00 Using data science analysis in the design, delivery and management of social housing to enhance resident health and wellbeing outcomes

Adam Hinds, LifeProven Wellbeing Property Company, UK

16.15 Exploring liveability: a formative factor analysis of statewide neighbourhood perception survey data in Connecticut

Nishita Dsouza, Drexel University, USA

16.30 Our future towns: community placemaking and transport planning

Dan Phillips, Royal College of Art, UK
 Lynda Addison, Transport consultant, UK

16.45–17.15 Panel discussion

DAY 2, STREAM 5: DESIGNING FOR SOCIAL VALUE

12 OCTOBER 2021 MAIN STAGE (all times are British Summer Time; all sessions streamed online)

**Session 13****Design for older people to flourish**

Chair: Janet Sutherland, Academy of Urbanism, UK

- 10.00** **Designing for eudaemonic wellbeing to improve human, societal and environmental health**
Jenna Mikus, Queensland University of Technology, Australia
- 10.15** **Symbiosia – re-imagining residential nursing care**
Esther Wiskerke, Symbiosia Community Interest Company, UK
- 10.30** **Elderly housing: learnings aquired after Covid-19**
Clara Rius, Estudi PSP Arquitectura, Spain
- 10.45–11.15 Panel discussion**

KNOWLEDGE ZONE**The social and environmental cost of degrading aesthetics - and strategies to maintain them**

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13.00–13.30 Aesthetics has been a major factor of human comfort and lack of it therein or degrading aesthetics has been a sign of degraded social surroundings, from homes to the workplaces to the public realm. Rejuvenation efforts have taken place in major European cities to improve social perception and entice workers to live close to their work place in areas of high density of population.

Buildings require cladding to protect surfaces. Whilst buildings are expected to age, not all materials will develop patina as wood or stone might. Metal is often a material of choice for its potential to be reclaimed and reused. However, as metal coatings degrade with obvious chalking, flaking cracking and colour change, this will induce metal degradation which itself involves strong disagreeable corrosion effects which bear strong visual impact. Although steel for example is a great reusable material, its reclaim process comes at a very high energy cost with its obvious impact on the environment. The balance of initial cost, durability of aesthetics with its impact on social perception and refurbishment cost should be balanced to reach a virtuous optimum.

This session will explore the impact of poor aesthetics on social perception and value. We will then be better able to understand the requirements for aesthetics and highlight strategies to maintain the designers' propositions for the long term.

Panel:  Lucie Garreau-ilesDuPont Tedlar,
Switzerland**Session 14****Designing for social health and inclusion**

Chair: Julia Thrift, TCPA, UK

- 14.30** **Reviewing the position of urban public space design in fostering social cohesion**
Raaga Bhandari, North Carolina State University, USA
- 14.45** **Grandma's Backyard**
Peter Ellery, Ball State University, USA
- 15.00** **Evaluating the potential of sustainability rating systems to address social equity**
Adam Yeeles, Kim Sosalla-Bahr, Jennifer Ninete, HDR, USA
- 15.15–15.45 Panel discussion**

**Session 15****Social infrastructure and safe spaces**

Chair: Giselle Sebag, ISUH, Spain

- 16.30** **Belfast-THRIVES: Transformative Health & Regeneration Initiatives for Vibrancy, Equality and Sustainability**
Saul M Golden, Gavan Rafferty, Ulster University, UK
- 16.45** **Supporting mental health in the urban village**
Ena Kenny, Ron Mar, Stantec Architecture, Canada
- 17.00** **Dementia-informed public spaces to promote social health**
Jodi Struge, Adema architecten / University of Groningen, Netherlands
- 17.15** **Community social value through placemaking in Chiclayo, Peru**
Jose Ahumada, Arup, UK
Mariana Alegre, Lucia Nogales, Ocupa tu Calle, Peru
- 17.30–18.00 Panel discussion**

DAY 2, STREAM 6: MOBILITY, TRAVEL AND TRANSPORT

12 OCTOBER 2021 MAIN STAGE (all times are British Summer Time; all sessions streamed online)

**Session 16****Walkability and wayfinding**Chair: **Carolyn Daher**, ISGlobal, Spain

-
- 10.45** **Elderly people's outdoor walking and inequalities in neighbourhood green spaces characteristics**
Razieh Zandieh, University of Manchester, UK
-
- 11.00** **Walkability planning and building of healthy community**
Maja Simoneti, Jana Okoren, IPoP – Institute for Spatial Policies, Slovenia
-
- 11.15** **Post-Covid urban reconfiguration of walkable, formal districts in the Greater Cairo Region for health sustainability and infection control**
Nancy Mohamed, The American University in Cairo, Egypt
-
- 11.30** **The city as an information space – type, lettering, and information design culture as part of a healthy city**
Christian Lunger, motasdesign, Austria

11.45–12.15 Panel discussion**Session 17****Reimagining the transport hub**Chair: **Clare Wildfire**, Mott MacDonald, UK

-
- 14.30** **Keep it moving: a circular approach to Mechelen's new mobility hub**
Coen van den Wijngaert, Iwein Meyskens, Maarten Lambrechts, archipelago architects, Belgium
-
- 14.45** **One flight away: navigating a new future for the air travel experience in a post-pandemic world**
Tyler Dye, Sally Lee, Hamed Aali, HDR, USA
-
- 15.00** **Crowded places in the post-Covid era**
Caterina Frisone, Oxford Brookes University, UK

15.15–15.45 Panel discussion**Session 18****Sustainable, safe and equitable mobility**Chair: **Blake Jackson**, Stantec, USA

-
- 16.30** **Sustainable mobility – teaching gen Z designers to think and act sustainably**
Christopher C Thorpe, Royal College of Art, UK
-
- 16.45** **Health impacts of e-scooters sharing systems in Atlanta and Portland**
David Rojas Rueda, Colorado State University, USA
-
- 17.00** **Walking and cycling – how can we all get the benefits?**
Susan Claris, Arup, UK
-
- 17.15** **Health impacts of bike-sharing systems in the US**
David Rojas Rueda, Colorado State University, USA

17.30–18.00 Panel discussion

Keynote plenary



Session 19

Shaping health and equity in the city

Chair: Liz Paslawsky, SALUS Global Knowledge Exchange, Australia

08.50 Chair's welcome and introduction

09.00 Keynote address: Designing for everyone

Jeremy Myerson, Professor Emeritus, Helen Hamlyn Centre for Design, Royal College of Art, UK

09.15 Keynote address: Density and urban design, post-pandemic

Rachel Cooper, Lancaster University, UK

09.30 Keynote address: Shaping neighbourhoods for personal, community & global health

Marcus Grant, Cities & Health, UK

Hugh Barton, Emeritus professor, WHO Collaborating Centre, UWE, UK

09.45–10.15 Panel discussion

Stream 7: The inclusive city



Session 20

Improving urban design, community wellbeing and cohesion

Chair: Chris Murray, Core Cities UK / Urban Psyche, UK

Panel: Charles Landry, Comedia, UK; Hugh Barton, WHO Collaborating Centre, UWE, UK; Sabine Coady Schaebitz, Coventry University, UK; Sarah Niblock, UK Council for Psychotherapy, UK; Rhiannon Corcoran, Liverpool University, UK; Edward Hobson, Design Council, UK

11.00–12.30 This is an interactive workshop based on 'Connecting Coventry', a project linked to Capital of Culture, using the tools and techniques of psychology to understand the impacts of urban design on emotional and mental wellbeing, and how these could be improved to build cohesion, resilience and positive community outcomes.

The framework for an urban psychology is based on 'Psychology and the City: the hidden dimension' (Landry and Murray 2017), an international summit, 'City, Psychology, Place', with the Heseltine Institute and British Council in 2019, and a special edition of the *Journal of Urban Regeneration and Renewal*, Volume 13, No. 3, 2020. This framework has involved psychologists, psychiatrists, neuroscientists economists, and designers building on a far longer history of psychological investigation into urban life. Connecting Coventry analyses the redevelopment of the city centre and its urban design from different psychological perspectives.

The exemplar will be framed in the context of interdisciplinary work that brings psychology into urban placemaking. Employing psychology systematically in urban design in Coventry can improve the impacts of placemaking, engaging people more fully in the process, building cohesion and trust. Psychology can build a shared narrative, engaging communities in powerful symbolic acts of co-creation for their cities. This can reposition places like Coventry in the public imagination, rebuild pride, a sense of shared endeavour and identity, critical to social cohesion.



Session 21

Light, sound and health

Chair: Marcus Grant, Cities & Health, UK

14.30 Integrating soundscape in healthy urban design and planning: perspectives for sustainable futures

Panel leads: Antonella Radicchi, TU Berlin, Germany
Brittany Carson, Oak Spring Garden Foundation, USA
Mattia Cobiainchi, John Drever, Goldsmiths, University of London, UK
Caren Cooper, North Carolina State University, USA
Lisa Lavia, Noise Abatement Society and Heriot-Watt University, UK

15.00 Strategies to fight noise pollution in the urban environment

Lucie Garreau-iles, DuPont, Switzerland

15.15 Humanity-centred lighting: the new normal?

Shelley James, Age of Light Innovations, UK

15.30–16.00 Panel discussion



Session 22

Designing for child health

Chair: Felicia Cleper-Borkovi, Arup, USA

16.30 A study into the travel patterns and environmental exposure of babies and young children, and their carers (the Urban 95 population) in Lewisham

Magali Thomson, Great Ormond Street Hospital, UK

16.45 School environments: an opportunity to improving child health and wellbeing, and foster climate change resilience

Monica Ubalde-Lopez, Carolyn Daher, ISGlobal, Spain

17.00 Shaping child-friendly happy cities: children's and adolescents' actionable recommendations towards achieving thriving neighbourhoods in Lima, Peru

Maria Jesus Alfaro-Simmonds, Universidad Científica del Sur, Peru

17.15–17.45 Panel discussion


Session 23
Healthier places: policies, tools and strategies

 Chair: **Michael Chang**, Public Health England, UK

11.30 The Place Standard Tool (PST) with a climate lens

Sam Whitmore, Public Health Scotland, UK

11.45 A point-of-interest (POI)-based machine learning method for predicting residents' health status

Shicong Cao, Heinle, Wischer und Partner Freie Architekten, Germany

12.00 The Better Places Toolkit Knowledge Transfer Partnership

Cara Mulholland, Stantec and University of Reading, UK

12.15–12.45 Panel discussion

Session 24
Healthy cities and active living

 Chair: **Ray Pentecost**, Union of International Architects Public Health Group, USA
 Panel: Xuemei Zhu, Texas A&M University, USA; Yi Lu, City University of Hong Kong, China; Sara Karerat, Center for Active Design, USA

**14.00–
15.30**

Active living is a way of life that integrates physical activity into daily routines. It is influenced by our surrounding environments and has been linked to multiple health benefits. The Covid-19 pandemic has, however, brought key challenges to this healthy lifestyle.

This workshop discusses the relationship between physical environment and active living before, during and after the pandemic. The first section will summarise the evolution of active-living research and its impacts on practice, up to before the pandemic. A few natural experimental studies will illustrate the impact of activity-friendly communities on promoting active living. The second section will focus on changes in physical activity during the pandemic, and the relationship between activity-friendly environmental features and infection risk or other related outcomes.

A series of lightning talks will introduce the latest research on topics such as (1) associations between activity-friendly environmental features and Covid-19 infection risk; (2) the role of nature in relation to active living, infection risk, and relevant disparities during the pandemic; (3) spatial-temporal patterns in changes of physical activity during the pandemic; (4) specific challenges for vulnerable populations such as older populations, especially nursing home residents, and low-income, affordable housing residents; and (5) people's attitude and preference towards activity-friendly environments during the pandemic.

Finally, participants will engage in an interactive discussion about the future of active living and healthy cities, and identify high-priority areas for future research and practice.


Session 25
Healthier cities by design

 Chair: **Giselle Sebag**, International Society for Urban Health, Spain
 Panel: Nathalie Roebbel, WHO, Switzerland; Thiago de Sa, WHO, Switzerland; Carlos Dora, International Society for Urban Health, Switzerland

**16.00–
17.30**

The International Society for Urban Health and the World Health Organization will partner to organise this interactive workshop showcasing the evidence-based ways that urban planning, design and architecture can contribute to enhanced health and wellbeing in cities worldwide.

It will also explore ways in which we can shift the narrative around how design contributes to improved health outcomes, how design practitioners can partner with public health professionals and highlight relevant tools, and capacity building opportunities for designing for health.

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DAY 3, STREAM 9: SUSTAINABLE DEVELOPMENT

13 OCTOBER 2021 MAIN STAGE (all times are British Summer Time; all sessions streamed online)

**Session 26****Healthy buildings****Chair:** Lucie Garreau-Iles, DuPont, Switzerland

- 10.00** **Indicators of healthy architecture: lessons for practice from a systematic literature review**
Louis Rice, Mark Drane, UWE Bristol, UK
- 10.15** **We are what we breathe: the historical burden of shared air and the future of indoor air quality**
Patrick Chambers, Stantec, Australia
- 10.30** **Building sustainable resilience into cities: the use of ultraviolet germicidal irradiance (UVGI) in the battle against respiratory virus outbreaks**
Paul Michael Lynch, Dan Lister, Arup, UK

10.45–11.15 Panel discussion**Session 27****Planning a health-creating community****Chair:** Mario Bozzo, SALUS Global Knowledge Exchange, UK**Panel:** Mark Drane, Urban Habitats, UK; Amanda Santo, John Koke, Dorsay Development, Canada; James Ehrlich, ReGen Villages, USA; Carl Bäckstrand, White Arkitekter, Sweden; Alice Liang, Montgomery Sisam Architects, Canada; Ryan Gravel, Sixpitch, USA; Agamemnon Otero, Energy Garden, UK; Jamie Burrows, Vertical Futures, UK; Victoria Walton, Bicester Healthy New Town, UK

- 13.30–15.00** There is no single absolute truth on how to plan a healthy and sustainable community. Every community in every nation and continent is enriched with histories, legacies, peoples and natural resources that are contextual, diverse, individual and, at the same time, interdependent.
- In this session, a new ecosystem approach to designing and planning healthy and health-creating communities is explored. The session will discuss a set of guiding principles developed to create a community with a strong sense of coherence, where its citizens have trust in the way the community works; for example, that it is a safe, secure and well-functioning community where laws and regulations are legitimate and understood in alignment with community values and norms such as diversity, equity and inclusiveness. It will ensure citizens have the resources they need – economic, public and social. And it will create the conditions for people to live meaningful and purposeful lives.
- The session will draw on the experiences of global exemplars, such as Hammarby Sjostad in Stockholm, Bicester healthy new town in the UK, the Atlanta Beltline in the USA, and Regen Villages, a new concept for resilient neighbourhoods. It will also discuss innovative projects such as Energy Garden in the UK, and technologies such as Vertical Futures, which has applied the latest ideas in health creation and planetary health.
- And it will examine how these exemplars are informing ambitious developments like Veraine, a proposed new community in Pickering, Ontario, with a vision to provide its residents with the resources, capabilities and sense of purpose in their daily lives – from housing, work, education and health, and arts and culture, to family, friends and social interaction – to flourish and lead a good and healthy life.

**Session 28****Net-zero city regeneration****Chair:** Harry Knibb, Oxford Properties, UK

- 15.30** **The delivery gap – the challenge of bringing ambitious city vision into reality**
Luke Strickland, Mott MacDonald, UK
- 15.45** **Innovative design options for smart local energy system in cities**
Kristina Roszynski, Cullinan Studio, UK
Akos Revesz, London South Bank University, UK
- 16.00** **Health and equity opportunities of commercial corridors revitalisation in Colorado**
David Rojas Rueda, Colorado State University, USA
- 16.15** **Creating healthy and vibrant town centres after Covid**
Cathy Russell, Ryder Architecture, UK

16.30–17.00 Panel discussion



Session 29

Ecological urbanism and health

Chair: **Oliver Jones**, Ryder Architecture, UK

09.00 The value of natural capital to health and wellbeing informs ecourbanism

Luke Engleback, Studio Engleback, UK

09.15 Back from the brink – or through to a new development paradigm?

Paul Crook, Paul J Crook, Kenya; Nikos Papachristodoulou, Triple Line, UK

09.30 Small is beautiful

Mike Nightingale, Mike Nightingale Fellowship, UK;
Stephen Chance, Chance de Silva, UK

09.45–10.15 Panel discussion



Session 30

Green blue infrastructure for social health

Chair: **Marcus Grant**, Cities & Health, UK

11.00 Methodical review of the green–blue spaces and health research field, 2000–2021: a bibliometric analysis

Ana Paula Albuquerque C Costalonga Seraphim, University of Cambridge, UK

11.15 Towards healthier places

Lorna Gribbin; Joe Harries, WSP, UK

11.30 Using community orchards to rebuild social value in the urban realm

Katherine Rosen, The Orchard Project, UK

11.45–12.15 Panel discussion



Session 31

Playing around with nature for better placemaking

Chair: **Alister Scott**, University of Northumbria, UK

13.30–14.30

This adapted workshop session will enable participants to understand the scope and potential of using a board game format to create better and healthier places. Drawing from work and outputs encountered in a three-year fellowship on mainstreaming nature using green infrastructure and the Urban Living programme, funded by UK Research Councils, participants will work together to co-design a board game focussed on the conference theme and based on their experiences in the conference to date. The platform to help orchestrate this challenge is here <http://www.participology.com/>

Participants will be encouraged to share their experience and expertise outside the constraints of usual work boundaries and practice to help co-design the game using the three phases of DESIGN, PLAY and EVALUATE.

The session will run as an interactive exercise with the group providing the necessary ingredients for the game based on outcomes from sessions they have attended or presented in which will then hopefully be developed for play in next years conference.

The workshop will definitely take people out of their comfort zone but, in so doing, provide an alternative fun environment where they can think creatively about the conference and how they can use to tackle problems they encounter in daily work practice. The experience will help them assess the potential of a board game format to generate additionality in their own work practice.



Session 32

Valuing urban greenspace: barriers and opportunities

Chair: **Audrey De Nazelle**, Imperial College London, UK

15.00 Barriers to the introduction of biomimetic, nature-informed structure design in urban green spaces

Isabella Stevens, Tilly Collins, Imperial College London, UK

15.15 Lessons for health-oriented design and use of urban green spaces from a network of European cities: the Health&Greenspace approach

Tamás Kállay, URBACT Health&Greenspace Network, Hungary

Zsófia Hamza, Municipality of 12th District of Budapest – Hegyvidék, Hungary

15.30 Valuing urban greenspace: Greenkeeper one year on

Jenni Montgomery, Barton Willmore, UK

Anastasia Abashina, Vivid Economics, UK

15.45 Biophilic urbanism: a study on healthy housing complexes

Sashanah Decayette, Ball State University, USA

16.00–16.30 Panel discussion

DAY 4, STREAM 11: WORK AND WORKPLACE

14 OCTOBER 2021 MAIN STAGE (all times are British Summer Time; all sessions streamed online)



Session 33

Social health in the workplace

Chair: Kate Cook, People Energy Partnership, UK

Panel: Clive Johnson, Derwent London, UK; Tim Wright, FirstBeat, UK; Neil Midgley, Change 2% Mindfulness, UK; Michael Smyth, GRAHAM, UK

10.15–11.45 People at work: social health, communities and wellbeing

There has never been a more important moment than now to realise that people at work and in our workplaces are our most important resource for our collective future. Humans create or destroy – either we can create healthy, happy humans and communities, or fuel a spiral of depressed and desperate individuals.

Working people are at the core of building brilliant cities and cityscapes, with meaningful culture and societies. We've found out over the past two years that humans are, well, human – and we have certain needs and requirements in order to be healthy, productive and happy. These are not nice-to-have add-ons to our working life but key ingredients to our communities, families and our world at large.

This session will explore the concept of “social health” – the idea that our health is not just us but the community, city and world in which we live. How can we nurture and grow health, happiness and wellbeing at work, to serve us all?

Organised by



Session 34

Healthy workplace, healthy citizens

Chair: Jeremy Myerson, WorkTech Academy, UK

Panel: Kasia Maynard, WorkTech Academy, UK; Imogen Privett, WorkTech Academy, UK; Tommaso Franzolini, AFK Studios, UK; Saskia Lorrison, 360 Workplace, UK

12.30–14.00 How can office design and culture enhance urban wellbeing?

Offices were once separated from ebb and flow of the cities in which they were located. Skyscrapers stood aloof from their urban setting, and central business districts operated on their own terms. Now, in the post-pandemic era, office design is being repurposed in the context of mixed-use typologies, community health and restoring urban vitality. The basic relationship between work and the city is being reimagined.

What new characteristics and influences can the workplace bring to the healthy city? In this interactive session, researchers and designers from the WorkTech Academy network will set out emerging trends and encourage participants to share and rank new priorities for the future work-ready city.



Session 35

Transforming the future workplace post-pandemic

Chair: Angela Loder, International WELL Building Institute, USA

14.30 Why offices matter in healthcare. Offering common ground, space to recharge and collaborate for medical personnel to enable optimal patient care

Lizette Engelen, Engelen 2, Netherlands
Monika Codourey, offconsult, Switzerland

14.45 Findings from a new workplace health behaviour study in an emerging mixed-use urban development in the US Midwest

Jeri Brittin, Doug Bisson, Francesqca Jimenez, Michaela Wittman, HDR, USA

15.00 Can human-centred design help us define the journey for future workplaces?

Ruth Hynes, Nic Sampson, Atkins, UK

15.15 Green operations and certifications: leading the post-Covid response

Blake Jackson, Stantec, USA

15.30–16.00 Panel discussion

Closing keynote plenary



Session 36

COP26: Last-chance saloon – from targets to action

Chair: Sunand Prasad, UK Green Building Council; Perkins&Will; Penoyre & Prasad, UK

Keynote: Carlos Dora, International Society for Urban Health, Switzerland

Panel: Harry Knibb, Oxford Properties Group, UK; Eime Tobari, COCREATIF, UK; Carolyn Daher, ISGlobal, Spain

16.45–18.00 The Intergovernmental Panel for Climate Change (IPCC) report has given the starkest warning yet that on current trajectories: the world is heading for a climate catastrophe. Stating that warming is “already affecting many weather and climate extremes in every region across the globe”, the report also makes it clear that changes of the planet’s natural support systems resulting from global warming are already irreversible on timescales of centuries or millennia.

From this summer’s flooding in China, Germany and London, to wildfires and heatwaves in North America, Siberia, Africa and southern Europe, the speed and impact of climate change on the planet, and on the health and survival of human and animal species, is no longer a problem for the future but an existential threat today. With the UK set to host the 2021 United Nations Climate Change Conference, from 31 October – 12 November, we conclude Healthy City Design with an expert panel to discuss their expectations for COP26, and how we move from targets to action across all sectors and parts of society – from the built environment and the transport sector, to our food and agriculture systems.

POSTER + VIDEO GALLERY

The poster + video gallery is a dedicated zone within the virtual platform open to delegates throughout the Congress. Here, you will be able to explore innovative research and project presentations in a highly visual, stimulating and dynamic environment, along with the ability to make contact and network with the authors and presenters.

P01 Using data science analysis to measure how different student accommodation factors influence the health and wellbeing of student residents

Adam Hinds, Jordan Relfe and Brendon Stubbs, LifeProven Wellbeing Property Company, UK

P02 The scientific relationship between housing and wellbeing

Adam Hinds, Brendon Stubbs and Jordan Relfe, LifeProven Wellbeing Property Company, UK

P03 Quality manuals for certification of health services

Astrid Maria Debuchy, Valeria Martinez, and Pablo Viqueira; FADU Faculty of Architecture, Design and Urban Planning – UBA University of Buenos Aires, Argentina

P04 Wildlife-friendly cities – bringing back nature and people

Blake Jackson, Stantec, USA

P05 Space in between

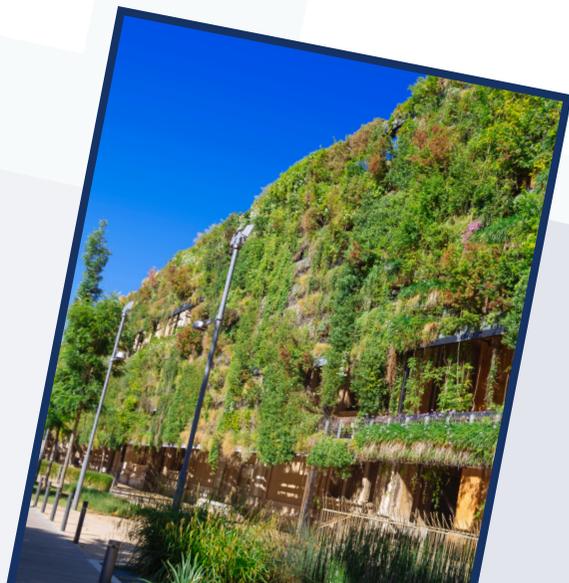
Ezgi Alveroglu, ITÜ, Turkey

P06 Invisible bricks: urban places for social wellbeing

Hannah Arnett, SLU, Swedish University of Agricultural Sciences (MSc), Sweden

P07 Advancing health equity in housing

Jason Hartke, International WELL Building Institute, USA



What our attendees say

“With mindfully chosen content and workshops, great speakers, lots of deep discussions, and many possibilities to interact, network and communicate, Healthy City Design was an incredibly useful event.”

Dr Jana Semrau, Research associate

University of Erlangen-Nuremberg, Department of Sports Science and Sport, Germany

“Healthy City Design is a truly remarkable event, one that I’m continually excited about as it offers a great platform for learning and sharing with a diverse array of ideas, thought leaders and research.”

Blake Jackson AIA, LEED/WELL Faculty, Fitwel Ambassador, CPHC sustainability design leader, senior associate, Stantec Architecture, USA

“Healthy City Design has been excellent with such a wide variety of speakers and different thematic areas. The Congress was amazing for both synchronous (live) learning and asynchronous (recorded) learning.”

Eva Hernandez-Garcia

MPhil/PhD student, University College London, UK

“As a non-academic frontline community worker, I thoroughly enjoyed every session of this outstanding conference. I found the depth of knowledge and expertise of the speakers to be impressive, I learnt a great deal, and I fully intend to view a whole range of recorded sessions that I didn’t register for.”

Hazel Stuteley OBE

Founder, C2 National Network of Connected Communities (C2NN), UK

“The presentations at Healthy City Design 2020 were informative and insightful, providing a good level of detail with examples of how the theory has actually been applied in practice.”

Guy Carson

Principal consultant, Archus, UK

“Healthy City Design 2020 was a great virtual event with high-level speakers and a vast amount of sessions.”

Thomas Chevalier Bøjstrup, Architect MAA; PhD fellow, Royal Danish Academy – Architecture, Design, Conservation, Denmark

REGISTRATION, SPONSORSHIP & EXHIBITION

SPONSORSHIP AND VIRTUAL EXHIBITION

Design thinking and innovation are the foundational premise of the Healthy City Design 2021 International Congress. The success of the design of a city, community, neighbourhood, home, workplace, transport system or technology is determined largely by the design thinking, principles and insights applied. We are seeking sponsors and exhibitors that can demonstrate their innovative design thinking to solving some of the critical human and planetary health issues we face as a society, as we enter a new reality shaped by the existential threats of climate change and a global pandemic.

We are also grateful for the fantastic support received from all of our existing sponsors and event partners in delivering the event in a virtual format for the second year running. There is recognition that the expert knowledge and content delivered and shared at Healthy City Design each year are more valuable and relevant than ever, during and beyond the pandemic, and support of our partners and sponsors is enabling us to increase access more affordably to many more practitioners, researchers and policy thinkers worldwide engaged in the design and planning of cities and communities.

To provide your support and build your knowledge brand as part of this global healthy city design partnership, learning environment and community, please review the packages below and contact Marc Sansom at marc@salus.global

Knowledge leader sponsorship: £5000

- Sponsorship of all sessions in a themed stream
- +15 delegate passes for team members and public-sector clients
- Acknowledgement in virtual stream by session chairs
- Exclusive branding on published videos of sponsored sessions
- Company profile, logo and web link on HCD 2021 web site
- Branding on all HCD and SALUS social channels
- Branding on all digital promotions and congress newsletters
- Branding on digital programme
- Company profile, logo and web/social links on virtual event hub
- Sponsorship also incorporates the virtual stand with own seminar room; 10 pre-recorded videos; 10 featured products and services; digital briefcase; and live chat

Innovation zone partner: £1500

- Own dedicated branded virtual stand
- +10 delegate passes or for team members and public-sector clients
- Own dedicated seminar room and presentation slot
- Up to 10 pre-recorded promotional videos, featr
- Up to 10 featured product and services
- Live chat and 1-2-1 or group video meets
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- Qualified audience analytics and lead manager
- Company profile, logo and web link on HCD 2021 web site
- Branding on all HCD and SALUS social channels
- Branding on all digital promotions and congress newsletters
- Branding on digital programme
- Company profile, logo and web/social links on virtual event hub

ATTENDEE REGISTRATION

Presented in a virtual format from 11–14 October 2021, the 5th **Healthy City Design 2021 International Congress (HCD 2021)** is the world's leading forum for the exchange of knowledge on the design and planning of healthy and sustainable cities and communities.

With access to more than 100 talks and workshops – 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 field of designing healthy and sustainable cities from all over the world at accessible prices.

A range of ticket types is available, giving attendees from around the globe great value for money. Attendee registration is available at www.healthycitydesign.global at the following rates:

Early bird rates (available until 1 October):

4 days: £165 (+ VAT in the UK) 1 day: £60 (+ VAT in the UK)

Standard rates (available from 2 October):

4 days: £225 (+ VAT in the UK) 1 day: £85 (+ VAT in the UK)

Group rates:

Buy 3-4 individual 4-day tickets: Save 15% (+ VAT in the UK)
Buy 5-9 individual 4-day tickets: Save 20% (+ VAT in the UK)
Buy 10+ individual 4-day tickets: Save 25% (+ VAT in the UK)
Discounts automatically applied at checkout

- Members of our event partners, listed on the front and back covers, are entitled to a 20% discount on four-day tickets. Please apply for your discount code at info@salus.global or contact the event partner direct. Please note that a discount code may only be used once by the same user.

- Please note VAT is not applicable to tickets bought by registrants outside of the UK. UK registrants will be e-mailed a VAT invoice receipt.



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RESEARCH • POLICY • PRACTICE

11-14 OCTOBER 2021

For online registration and fees, please visit: **W: <https://HCD2021.hubilo.com>**

Early-bird discounts are available until 1 October 2021, with further discounts available for group bookings of three or more delegates booked at the same time

For academic institutions or commercial organisations wishing to secure attendance for groups of 10 people or more, please contact: **info@salus.global**

For sponsorship enquiries, please contact Marc Sansom at: **marc@salus.global**



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