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HEALTHY CITY DESIGN INTERNATIONAL

RESEARCH • POLICY • PRACTICE

11-14 OCTOBER 2021

VIRTUAL

PRELIMINARY PROGRAMME

BACK FROM THE BRINK

DESIGNING FOR CLIMATE, COMMUNITY AND SOCIAL VALUE

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



Journal partner



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Design leaders



Knowledge leaders



Event partners



Timetable of events

August 2021

Launch of Preliminary Programme and online registration

16 September 2021

Deadline for Early Bird and speaker registration

1 October 2021

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
Helen Hamlyn Chair of Design
The Helen Hamlyn Centre for Design,
Royal College of Art



Marc Sansom
Director
SALUS Global
Knowledge Exchange

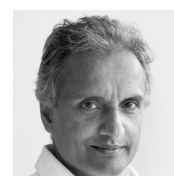
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Keynote speakers



Minnie Moll
Chief executive,
Design Council, UK



Sunand Prasad
Chair, UK Green Building
Council; Co-founder,
Penoyre & Prasad, UK



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



Ken Greenberg
Principal, Greenberg
Consultants, Canada



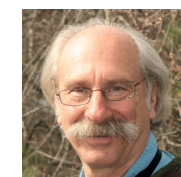
Lord Nigel Crisp
Independent crossbench
member, House of Lords;
Co-chair, All-Party Parliamentary
Group on Global Health, UK



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



Jeremy Myerson
Helen Hamlyn Chair of Design,
The 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

Keynote plenary



Session 1
Opening keynote plenary

Chair: Jeremy Myerson, Royal College of Art, UK

08.45 **Welcome and introduction**

09.00 **Keynote address: Design for planet**

Minnie Moll, Chief executive, Design Council, UK

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

Sunand Prasad, Chair, UK Green Building Council; Co-founder, Penoyre & Prasad, UK

09.30–10.15 **Panel discussion**

Stream 1: Designing for climate, community and social value



Session 2
Restorative cities

Chair: Layla McCay, Centre for Urban Design

and Mental Health; NHS Confederation, UK

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

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

This year has seen the publication of *Restorative Cities: Urban Design for Mental Health and Wellbeing* (Bloomsbury, 2021). This important new book 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 will present a new evidence-based practical framework for designing better mental health and wellbeing into cities: the Restorative City. This workshop will explore the seven pillars 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.

This dynamic session will incorporate a panel discussion on the new framework's relevance and application, and breakout groups in which participants will apply this new framework in a practical context. Participants will gain an understanding of how to incorporate the principles in the Restorative Cities framework into their efforts to integrate mental health and wellbeing into their own work in policy, planning and design.



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, USA

14.30–16.00 This 90-minute session will explore international community- and city-level case studies that have successfully activated design and policy in the built environment to promote health alongside climate adaptation and mitigation.

Organised into three panel discussions, the session will explore how local design and policy solutions can be integrated and scaled to support long-term health and climate resilience in cities around the globe. Moderated by the International WELL Building Institute and a to-be-determined organisational partner, panels will include city leaders and policymakers alongside global experts in design, planning, public health, and sustainability.

Panel 1: Designing city resilience – this will highlight design strategies that have utilised public health and scientific research to implement design strategies that supported city resilience during both Covid-19 and climate emergencies.

Panel 2: Scaling success through city policy – this will discuss policy frameworks anchored in the built environment that have embedded sustainability and wellbeing into the foundation of local communities, especially by engaging marginalised populations in policy development.

Joint Panel: Accelerating integrated city solutions – this will bring the first two panels together to discuss how built environment design and policy can be integrated to empower cities worldwide to accelerate the development of healthy, sustainable, inclusive places.

While this event is relevant to all city leaders and stakeholders, it will most appeal to elected city officials, public health researchers, policymakers, urban planners, designers, architects, engineers, community representatives, and corporate business leaders.



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; Deepti Adlakha, North Carolina State University, USA; 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

Build back better: how we innovate our way to a new normal

Eric Corey Freed, CannonDesign, USA

14.15

Community connections: reshaping the resilience of urban centres

Nathalie Beauvais, HDR, USA

Daniel P Aldrich, Northeastern University, USA

14.30

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

Rupert Allan, Kelechi Nnoaham, Cwm Taf Morgannwg University Health Board, UK

14.45

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

15.00–15.30 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** **Revisiting design for 'health in place': what post-pandemic healthy places really need**
Geoff Southern, IBI Group, UK
-
- 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, Kieren Morgan, 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** **A journey from healthy cities to healthy streets: case of Çankaya, Ankara, Turkey**
Sertac Erten, Arup, Turkey
Salvatore Settecasi, Arup, Italy
-
- 15.30** **Integrating health, care and placemaking – re-imagining Great Ormond Street**
Magali Thomson, Great Ormond Street Hospital, UK
Scott Carroll, LDA Design, UK
-
- 15.45–16.15 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 confirms the UK Government's intention for 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 are now confirmed to feature in the new Bill. At the same time, the Government's Building Beautiful Places plan 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.

Our panel will explore whether the reforms will 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.

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 Wijngaart, Joost Declercq, Maarten Lambrechts, archipelago architects, Belgium

12.15

Connecting communities (digitally)

Amir Hussain, Alejandro Quinto, Jordi Campo Bria, Kushal Saraiya, 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, Paul Goodship, 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: Marc Sansom, 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, Brendon Stubbs, Jordan Relfe, LifeProven Wellbeing Property Company, UK

16.15

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

Nishita Dsouza, Usama Bilal, Drexel University, USA
Rodrigo Reis, Washington University in St Louis, USA
Ana P Martinez Donate, Drexel University, USA

16.30

Our future towns: community placemaking and transport planning

Dan Phillips, Royal College of Art, UK

16.45–17.15 Panel discussion



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, Henry Trumpington, Symbiosia Community Interest Company, UK
- 10.30** **Elderly housing: learnings aquired after Covid-19**
Clara Rius, Ramon Torrents, Estudi PSP Arquitectura, Spain

10.45–11.15 Panel discussion



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** **Dementia-informed public spaces to promote social health**
Jodi Struge, Adema architecten / University of Groningen, Netherlands
- 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** **Grandma's Backyard**
Peter Ellery, Ball State University, USA
Reverend Kevin Ross, Unity of Sacramento, USA
Ning Zou, Jane Ellery, Ball State University, USA
- 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



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, Audrey Dickinson, 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, Raeven Clockston, 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, 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

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 case study will be framed in a broader context of interdisciplinary work that brings psychology into urban placemaking. Employing psychology systematically in urban design in Coventry can greatly improve the impacts of placemaking, engaging people more fully in the process, building cohesion and trust. Psychology can help 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: Stephane Sadoux, Grenoble Alpes University, France

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

Panel leads: Antonella Radicchi, TU Berlin, Germany; Marcus Grant, Cities & Health, UK
Brittany Carson, Oak Spring Garden Foundation, USA
Mattia Cobianchi, 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
Mike Demko, DuPont, USA

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: Montira Pongsiri, Save the Children, 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, Sílvia Borràs, Mark Nieuwenhuijsen, 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
Kat Hasler, The Scottish Government, UK

11.45 Is obesity policy in England fit for purpose? Analysis of government strategies and policies, 1992–2020

Dolly R Z Theis, Martin White, University of Cambridge, UK

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

Shicong Cao, Heinle, Wischer und Partner Freie Architekten, Germany
Hao Zheng, University of Pennsylvania, USA

12.15 The Better Places Toolkit Knowledge Transfer Partnership

Cara Mulholland, Stantec and University of Reading, UK
Jenny Hughes, Stantec, UK
Flora Samuel, University of Reading, UK

12.30–13.00 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; John Koke, Dorsay Development, Canada; James Ehrlich, ReGen Villages, USA; Carl Bäckstrand, White Arkitekter, Sweden; Alice Liang, Montgomery Sisam Architects, Canada; Ryan Gravel, Six Pitch, USA

- 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, Julian Vercruyse, John Carstensen, 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
Alex Fell, Sahiba Chadha, Cullinan Studio, UK
- 16.00** **Health and equity opportunities of commercial corridors revitalisation in Colorado**
David Rojas Rueda, Lauren Ratliff, 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** **Tackling Australian health and environmental challenges in partnership with First Nations**
Katharina Nieberler-Walker, Australian Institute of Landscape Architects / Griffith University, Australia; Fiona Foley, Griffith University, Australia
- 09.15** **The value of natural capital to health and wellbeing informs ecourbanism**
Luke Engleback, Studio Engleback, UK
- 09.30** **Back from the brink – or through to a new development paradigm?**
Paul Crook, Paul J Crook, Kenya; Nikos Papachristodoulou, Triple Line, UK
- 09.45** **Small is beautiful**
Mike Nightingale, Mike Nightingale Fellowship, UK;
Stephen Chance, Chance de silva, UK

10.00–10.30 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; Elisabete A Silva, University of Cambridge, UK
- 11.15** **Towards healthier places**
Matthew Jessop; Lorna Gribbin, 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 workshop will enable participants to engage in a safe space using a board game format to create better places in response to a series of real-life scenarios as depicted on squares on a virtual game board. Drawing from work and outputs encountered in a three-year fellowship on mainstreaming nature using green infrastructure, funded by UK Research Councils, players will work together to create better and healthier places in response to opportunities and threats affecting a hypothetical space called RUFshire.
- Participants will debate issues outside the constraints of usual work boundaries and practice leading to novel and informative insights. Teams of players will move across a board with the challenges/opportunities dictated by the throw of a dice. Each challenge will have a period of discussion before a decision on the way forward is presented. After answering three such challenges the team will use their collective intelligence to identify the common ingredients across their responses, with these then becoming their key hooks for building better places. These hooks are then presented across all teams taking part as the focus for understanding how better to use them in current policy and practice.
- The workshop will help take people out of their comfort zone but, in so doing, provide an alternative fun environment where they can think creatively to tackle problems they encounter in daily work practice and help identify novel solutions in a group setting.



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, Clive Potter, 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**
Shireen Kanakri, 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

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

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; **Penoyre & Prasad**, UK

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

P08 Creation of health and sustainable communities in a post-Covid world

Suzanne MacCormick, Spencer Harrison, Healthcare Solutions, UK



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 preliminary 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
- Digital briefcase – corporate and product literature downloads
- 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 preliminary 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 16 September):

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

Standard rates (available from 17 September):

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 16 September 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**

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