



European Health Property Network

EUROPEAN HEALTH PROPERTY NETWORK

2018 WORKSHOP

Gothenburg, Sweden: 25-27th September

Research and Evaluation for Care Infrastructure Closer to Home



In collaboration with:



CHALMERS
UNIVERSITY OF TECHNOLOGY

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**European Health Property Network
2018 Workshop
Gothenburg, Sweden, 25-27th September**

Research and Evaluation for Care Infrastructure Closer to Home

What's the challenge?

Across Europe, we need health systems focused on care closer to the patient. Chronic illness and multi-morbidity – particularly concerning, but not restricted to, older citizens – means that care models must respond appropriately. Hospitals remain important and valued institutions, but citizens need access to timely intervention and treatment at a more local level, and capital investment needs to shift to meet this demand. In this case, the health estate – the physical infrastructure and the technology of health and healthcare – must also respond and adapt.

But how do we know what should change and where to invest? What evidence should be used to plan, design and build the future infrastructure of care? Who is researching the way forward, and how is analysis and evidence being used by the policy makers and the professionals with responsibility for the healthcare built environment? How can we best learn from each other?

These challenges and questions sit at the heart of the 2018 workshop's themes:

What is the future for health systems and health infrastructure designed for care closer to home?

How can we build a strong, pan-European knowledge base to meet this need, using academic research and practitioner experience in a structured way?

This year we look at infrastructure development outside the field of grand hospital developments, by concentrating on community hospitals and smaller-scale mental health units, enhanced primary care centres and specialist health secondary care facilities. We will be presenting cases from across Europe to help us to explore the trends and the challenges.

Our cross-cutting theme is the need for structured and well-evidenced strategic planning and design based on high quality evidence and a sound knowledge base. As well as the contribution from traditional academic approaches to health building research, we will also explore new ways to plan, design and evaluate the built environment through use of Virtual Reality (VR) technologies.

Who should come?

As in recent years, the EuHPN 2018 workshop is an opportunity to engage with an eclectic mix of individuals and organizations, representative of every aspect of health infrastructure development. Participants typically represent a wide variety of professional backgrounds: health policy makers, healthcare architects and engineers, health system planners, clinical/medical professionals, capital investment experts, health infrastructure academic researchers, and many others. The annual EuHPN workshop is structured to give our member organisations an opportunity to share examples of best practice and to learn from each other's experiences. But the workshop is also an important opportunity for participants to hear from outside our immediate network and from a range of professionals who bring different perspectives.

Workshop Programme

Chalmersska huset, Gothenburg, 25-27 September 2018

Tuesday, 25th September

12.15 – 13.15 **Welcome buffet lunch**

EuHPN welcomes the speakers and audience participants to the 2018 workshop. Please join us for a buffet lunch in the elegant surroundings of the Chalmers villa, register at your leisure and meet fellow workshop participants.

13.15 – 14.30 **Welcome, introductions and context setting: Gothenburg; Sweden; Europe**

Europe's healthcare systems have a responsibility to invest in care models which will meet future health need, by moving care from care silos (hospitals and health centres) to community and home environments. This means changes to the skill mix of the healthcare workforce, the kinds of technologies in use, the relationship between healthcare practitioners and citizens, and – crucially – the physical infrastructure of healthcare.

Invited speakers will examine how care models are changing in Sweden and in Gothenburg, and how this may affect the kinds of buildings and technologies used to provide care to citizens. In addition, we have invited one of the UK's leading independent health and care research centres to reflect on whether the healthcare built environment can adapt quickly enough to support new models of community and home-based care and to meet the technology challenges of the information age.

Hans Winberg, Secretary General,
Leading Healthcare, Sweden

What is the future for health and care in Sweden?

Henrik Almgren, Project Manager for
the Göteborgssjukvården project, Västra
Götaland Region, Sweden

The ambitions for health in the
Gothenburg Region – what needs to be
built?

Keynote speaker: Nigel Edwards, Chief
Executive, Nuffield Trust, UK

Health system change in the UK and
Europe: is the infrastructure up to the
challenge?

14.30 – 15.30

Session 1: Research frontiers in care infrastructure

If health system planners and capital investment experts are going to make good decisions about how to best use scarce resources, they need solid evidence about which kinds of environments and buildings are going to support high quality, accessible care and value for money.

Session 1 sets the scene for one of the main themes of this year’s workshop by asking – and debating – some key questions:

- What is the contribution of academic and practitioner research to sustainable healthcare infrastructure development?
- How can we ensure that the outcomes of research are easily available to the people who plan, design, build and maintain health and social care facilities?
- Can we build a pan-European knowledge base, mobilising useful knowledge from north to south, east to west?
- How can research contribute to a more sustainable future for healthcare infrastructure?

Dr Göran Lindahl, Center for Healthcare Architecture, Division of Building Design, Chalmers University of Technology
Care environments as a function of Design Research and Caring Science (I)

Professor Helle Wijk, Deputy Head, Institute of Health and Care Science, The Sahlgrenska Academy at Gothenburg University
Care environments as a function of Design Research and Caring Science (II)

Dr Maria de Fátima Castro, Universidade do Minho, Portugal
A research framework for assessing the social sustainability of healthcare buildings in community settings

15.30 – 16.00

Coffee break

16.00 – 18.00

Session 1 (continued): Research frontiers in care infrastructure

After coffee we return to our research theme, to hear from academic colleagues, as well as practitioners who are using emerging research to guide their projects. Here we use ‘research’ in the broad sense of programmes which systematically organise the data and analysis which will benefit the planning and design of healthcare facilities, and which push the boundaries of knowledge in areas such as sustainable development and integrated, community-based health and social care.

Unni Dahl, PhD candidate, Sykehusbygg, Norway
What does research tell us about the viability of small, local, community hospitals?

Katri Länsivuori MSc, Project Manager, Delivering integrated home care services
South Karelia social and Healthcare
District, Finland

Heidi Huuskonen PhD, Project Manager, Safety at Home
South Karelia Rescue Department,
Finland

Rosica Pachilova, PhD candidate, UCL, UK The effect of health building design on
quality of care: lessons from the past to
inform the future

Anne Symons, PhD candidate, UCL, UK The effect of delivery models on the
requirements crunch point: the case for
integrated project delivery

18.00 – 19.30

EuHPN Workshop drinks reception: the Bank Vault, Chalmersska huset



The Chalmers villa was used as a bank headquarters for many decades, and during this period the bank's owners constructed Sweden's first custom-built safety deposit vault, to hold the valuables and confidential documents of Gothenburg's merchants.

Nowadays the bank vault is on show as an attractive and history-rich reception area, and we invite workshop participants to join us in this unique setting for drinks, canapes and the opportunity to network and swap ideas with colleagues.

Wednesday, 26th September

08.30 – 10.30

Session 2: New infrastructure for community care: closer to home, or more like home?

If capital investment in large scale, new hospitals is paused or no longer appropriate, where should we focus our resources and expertise in planning and design? How can we ensure that care is truly ‘closer to home’?

We see different responses across Europe. For some years, Northern Ireland in the UK led the way in creating enhanced community and primary care centres, while reducing the number of general hospitals and focusing specialist expertise in a smaller number of secondary and tertiary units, and this model is now being explored in Ireland as well. Similarly, Scotland is engaged with a major shift towards technology-enabled, locality—based, integrated health and social care services, based on the country’s ‘2020 Vision’. Finland has notably led the way in pushing forward with health and social care integration, using new technologies and a differently skilled workforce to look after patients outside the walls of the hospital.

In essence, we see the same kind of model being promoted and enacted across much of Europe. But is it really working for patients, and will it be sustainable?

Susan Grant, Principal Architect, Health Facilities Scotland, UK

Scotland’s 2020 Vision and the challenges of geography in planning community healthcare facilities

John Browner, Health Service Executive, Ireland

Provision of Residential Care Centres in the Republic of Ireland

Milena Stevanovich, PhD Candidate, VK Architects & Engineers, Belgium

Lifecycle assessment of health and care buildings: a perspective from the construction sector

Andrea Möhn, Andrea Möhn Architects BV, Netherlands; **Linda van Beest**, Healthcare Manager, Ipse de Bruggen, Netherlands

Dolf’s Room - How changing the environment of a client with mental disabilities can make a difference to his life

10.30 – 11.00

Coffee break

11.00 – 12.30

Session 3: The forgotten service? Rethinking environments for mental health.

Mental health care is increasingly driven by a need to keep patients out of hospital and long-stay environments as far as possible. And when people do need to access in-patient services, evidence clearly shows that they need homely, attractive and calm surroundings. A number of research and design centres are leading the way in meeting this challenge, and this session will focus on three exemplar cases, drawing on the problems faced and evidence and research which point to solutions.

Vincent Magri, Foundation for Medical Services, Malta Masterplanning the modernization of an in-patient psychiatric hospital

Cristiana Caira, Partner and Board Member, White arkitekter, Sweden; **Suzanne Guregard**, Södra Älvsborg Hospital, Sweden Swedish design for mental health facilities: the New Psychiatric Clinic in Borås.

Willemineke Hammer, Partner, EGM Architects, **AnneMarie Eijkelenboom** Architect, EGM Architectys, Netherlands Rethinking environments for mental health and dementia care

12.30 – 13.30 Lunch, networking and sponsor exhibitions

13.30 – 14.45 **Session 4 (I): Pushing the boundaries of planning and design for future care infrastructure: using Virtual Reality to create person-centred environments; framework tools for service planning**

Virtual Reality (VR) systems are not new, but their application to the fields of healthcare infrastructure planning and design is still at an early stage. VR can provide health infrastructure professionals with enhanced perspectives on the needs of patients and staff, and AI may have an important role in guiding choices about where to invest, in which kinds of facilities and how to improve the planning and design of future healthcare buildings.

Eng. Marco Pirini, Khymeia, Italy and **Marta Matamala Gomez**, University of Barcelona/University of Pavia Virtual reality as a tool for continuity of care from hospital to home

Dr Sunil Angris, GP and Director, Fusion48 and **David Seymour**, Director, Fusion48, UK FrailtySIM: changing perceptions and improving the lives of older people

14.45 – 15.45 **Session 4 (II): Virtual health facility modelling and development**

Mr Rick Shands, Director, Total Alliance Health Partners International (TAHPI), UK Virtual Infrastructure and the Healthcare Ecosystem

Menno Hinkema, TNO, Netherlands Strategic decision support through integrated modelling of alternatives

Session 4 will present some cutting-edge examples of the use of VR technologies (from Italy and the UK) in strikingly different care environments, and will additionally cover the use of a highly structured health facilities framework tools (UK and Netherlands) to match healthcare needs, the service offer and health system infrastructure.

15.45 – 16.15 Coffee break: opportunities to take part in live demonstrations of the Virtual Reality tools.

16.15 – 17.15

Session 5: Study tour orientation

The Carlanderska hospital, the Angered hospital and the Nötkarnan bergsjön center each meet the unique healthcare needs of local populations in Gothenburg in different ways. Whether it is through the healing properties of the natural environment, the specific healthcare requirements of deprived communities, or the personalized approach to primary healthcare, each facility has an important design message, which is relevant to this year’s workshop themes.

We are fortunate to have the opportunity to hear from the expert professionals who have been involved in the planning, design and operation of each of these three facilities. The talks on the Carlanderska hospital and the Nötkarnan bergsjön primary care centre will provide valuable context and background for the two study site visits on the 27th September.

- Ulla Antonsson and Roger Johansson,** White arkitekter, Sweden The Carlanderska Hospital: principles of design for specialist but local care
- Christer Andersson,** Nötkarnan bergsjön center, Sweden Designing a primary care centre to meet the needs of local citizens
- Pernilla Norden and Börje Blomster,** Sweco, Swedn The right to health for all: an inclusive approach to co-design of hospital care with local residents

17.15 – 18.00

Better by design: cost savings of evidence-informed design

Professor Roger Ulrich, PhD, Center for Healthcare Architecture, Chalmers University.

Roger Ulrich, PhD, is Visiting Professor of Architecture at Chalmers and Professor Emeritus of architecture at Texas A&M University. He is the most frequently cited researcher internationally in evidence-based healthcare design and received the title Change Maker of the Year 2015 due to his contributions to this field of research.

EuHPN is delighted that Professor Ulrich has agreed to provide a keynote speech at our workshop.

19.45 – 22.30

Workshop dinner: boat tour of the Gothenburg archipelago

For the 2018 workshop we have organised a dinner boat cruise of the Gothenburg archipelago. This will be a unique opportunity to view the local islands and coastline, to engage in further discussion with the workshop presenters and panel members, and to forge new relationships with healthcare infrastructure professionals from around Europe. We anticipate a memorable meal in good company.

Thursday, 27th September

0.30 – 12.00 **Study tours of the Carlanderska Hospital and the Nötkarnan bergsjön center.**

Participants will be able to visit both sites – coaches will be provided from outside the Chalmersska huset.

This is your opportunity to see the design features up close and to hear from the staff who use these buildings every day. This year we have included study tour briefings as part of our day 2 schedule, so you should arrive already primed with some key understanding of the rationale for these developments. Please refer to the study tour information section for more details of these facilities.

12.00 – 13.00 Lunch

13.00 – 14.00 **Session 6: Reshaping our environment for future care: the role of the hospitals**

We end the 2018 EuHPN workshop with presentations from individuals who will focus on alternatives to the ‘traditional’ or ‘general’ hospital. We know from many years of research that the offer from secondary healthcare no longer matches the underlying needs of many patients, and yet it has proven difficult to move towards a new paradigm of hospital care. However, other models are now emerging – we contrast solutions from the south and north of Europe.

Jose Carlos Palmer, Manuel Perez, High resolution healthcare assistance (an alternative to the ‘general hospital’)
Planho Consultores, Spain

prof. dr. Bianca Buurman, professor of acute geriatric care, Amsterdam (neighbourhood hospital)
University Medical Centers, University of Amsterdam, The Netherlands.

14.00 – 14.30 **Session 7: Priorities and trends for future health and care environments**

In the closing remarks the EuHPN Chair, **Prof. Arch. Simona Ganassi Agger**, who completes four years in her role, will reflect on two visions for the future: the ideal environment for well-being, health and care in the 21st century, and role of healthcare infrastructure research in reaching this goal.

14.30 – 14.45 **Conclusions and close of the 2018 Workshop**

Jonathan Erskine, Executive Director, European Health Property Network

Study tours

The visits to the Carlanderska Hospital and the Nötkarnan bergsjön center will start from the Chalmerska huset workshop venue at 08.30. Due to the number of participants, we will organise two groups, each of which will visit both sites and return in time for lunch at 12.00.



Carlanderska Hospital

The Carlanderska is a truly unique hospital. Since opening in 1927 it has been committed to providing the highest standards of healthcare within a beautiful and friendly atmosphere. Much of the lush, green surroundings of the original country estate has been preserved. Along with the impressive building itself, the patients think that this has a 'revitalizing effect on the mind'.

In order to remain an attractive hospital with optimal care in purposeful premises, White Architects has designed an extension where old meets new, modern technology and where the cultural and historical environment is preserved. The Carlanderska is a specialist hospital, but it doesn't sit as an isolated silo – it is fully integrated into the healthcare system in the Västra Götaland region and is part of the web of care from home to hospital and back to home.

Nötkarnan bergsjön center



Vårdcentralen Nötkärnan is a primary health center in Bergsjön, Gothenburg, that opened in 2016. It has been awarded two international design awards (at World Architecture Festival in Berlin and at European Healthcare Design in London), and it has been nominated for several prestigious national awards. Wingårdhs

Architects designed a facility with facades in strong colors that give a moving impression when passing. The interior's rainforest in glass is the vision of paradise taken from the cultures that are most strongly represented in Bergsjön: Somalia and Iraq. The combination of committed patient work and engaging architecture together show the importance of a good-looking care.

Venue and Travel

Chalmersska huset

The venue for the 2018 European Health Property Workshop is the Chalmersska huset, located at Södra Hamngatan 11, 411 14 Göteborg. The Google maps reference is here:

<https://goo.gl/maps/iM894Kt4AQS2>.



The Chalmersska huset (the Chalmers villa) sits in the middle of Gothenburg and the Stora Hamn Canal, and 10 minutes walk from Gothenburg Central Station.

For more than 200 years, the Chalmers villa served as a house for several famous Gothenburg families, but also a platform for business and enterprise.

These days, the Chalmers villa houses the cradle of Chalmers University of Technology. Thanks to the founder William Chalmers' legacy, this site became the nucleus of a highly-ranked university that, over the years, has trained over 55,000 students and created world history through, among others, Nobel laureate Gustaf Dahlén.

Travel information

Gothenburg airport is located 20 km from the Central Station. There are several bus services to the city center. Further information is available from the airport website:

<https://www.swedavia.com/landvetter/bus/>.

The alternative to flights to and from Gothenburg airport is to fly to Copenhagen and then take a train to Gothenburg directly, or via Malmo Central Station, from the airport. The train options are available from the SJ website (<https://www.sj.se/en/home.html>) The direct train journey from Copenhagen airport to Gothenburg should take just over 3 hours and 20 minutes.

Accommodation information

EuHPN has arranged discount accommodation with two central Gothenburg hotels, the Clarion Post and the Hotel Eggers. **Please note that discount offers end on 24 August 2018 – see below for details.**

Clarion Hotel Post

Drottningtorget 10411 03 Gothenburg , Sweden (<https://goo.gl/maps/jcUvJXj39uT2>)



The Clarion Hotel Post is a contemporary design hotel in central Gothenburg, located in front of the Gothenburg Central Station and 10 minutes walk from the Chalmersska huset. The stunning architecture of the old Posthuset (Post Office) has been preserved and enhanced by an equally spectacular refurbishment. Enjoy the award-winning restaurants, as well as the popular bar, spa and rooftop pool.

Price for double rooms with single occupancy: 1495 SEK/night. Breakfast, wifi, gym and entrance to our rooftop pool is included in the room rate. How to make the reservation: email to group.post@choice.se. Booking reference: EuHPN 2018 - 2099GR020453. There is a special discount valid till 25th August.

Hôtel Eggers

Drottningtorget 2-4, 411 03 Göteborg (<https://goo.gl/maps/UxTFtdg6Jny>)

The Hôtel Eggers is situated in the middle of Gothenburg, with the central train station, trams and buses on the doorstep and 10 minutes' walk from the Chalmersska huset. With parquet flooring and oriental carpets, as well as stucco decoration and chandeliers adorning the ceilings, the hotel offers a setting that differs from the usual hotel interiors.



Price for double rooms with single occupancy: 1295 SEK/night. Breakfast and wifi is included in the room rate. To make a reservation email info@hoteleggers.se using booking reference 308118. There is a special discount valid till 24th August.