28th October

Session programme

Emma Hooper

Kevin Bauer

Atul Khanzode

10:00 (9:00 CET) Opening and keynotes

Chair: Tommi Arola, buildingSMART Finland

10:00	Opening of Hospital BIM Open 2020
10:15	Welcome message from buildingSMART International **Richard Petrie**, buildingSMART International
10:30	**KEYNOTE** Information - the one true asset to rule them all! **Emma Hooper,** Bond Bryan Digital
11:00	**KEYNOTE** The digital twin survival guide - hospital operations special edition **Kevin Bauer,** Siemens

12:00 (11:00 CET) Requirement Management

Chair: Hanna Petäjä, Turku University Hospital (Tyks)

12:00	BIM tender procedures of healthcare projects in Germany - National frameworks and approaches for the successful implementation of Open BIM processes **Robin Schönbach,** Leibniz Universität Hannover
12:30	Requirement Management Processes **Johannes Aho**, **Manuel Furlotti,** Gravicon

14:00 (13:00 CET) Digital Twin

Chair: Carl Sirén, Helsinki University Hospital (HUS)

14:00	Digital Twin cases in real life: Challenges and how they have been solved **Jim Nyroos,** Cadmatic
14:30	The Philosophy of Digital Twin – Enabling User-Centric and Sustainable Healthcare and Hospital Facilities **Jarkko Männistö,** Sitowise

15:30 (14:30 CET) Digital Twin 2 - Sponsored by Granlund

Chair: Tero Järvinen, Granlund

15:30	Towards the perfect digital twin **Panu Pitkänen,** Platform of Trust
16:00	The University Hospital RWTH Aachen. Towards BIM capturing and a continuous Digital Twin of a large protected heritage structure as a process **Prof. Christian Raabe, Prof. Sabine Brück, Prof. Jakob Beetz,** RWTH Aachen University

17:00 (16:00 CET) Keynote Session

Chair: Tommi Arola, buildingSMART Finland

17:00	**KEYNOTE** **Atul Khanzode**, DPR Construction

12:00 (11:00 CET) Virtual Reality - Sponsored by NCC

Chair: Gustav Olsson, NCC

12:00	Digital construction of hospitals: evaluating the end-user experience through open BIM and VR systems **Prof. Silvia Mastrolembo Ventura,** University of Brescia
12:30	How BIM and VR are critical in helping reduce risk & guarantee delivery of best quality and economically efficient healthcare in years to come. **Kasey Snyder,** Tridify Limited

14:00 (13:00 CET) Asset Management

Chair: Tarja Mäkeläinen, VTT

14:00	BIM - CAFM integration in the hospital environment. The experience of the collaborative laboratory of the University of Florence in the Polo Universitario Ospedaliero di Careggi in Florence. **Prof. Luca Marzi,** University of Florence
14:30	Hospital guidance for all stakeholders **Merja Taipaleenmäki,** Citynomadi Ltd

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Max Levander

Esa Ikäheimonen

Hanna Petäjä

Annika Lindblom

10.00 (9:00 CET) Opening and keynotes

Chair: Tomi Henttinen, buildingSMART Finland

10.00	Opening
10.05	**KEYNOTE** Case Hospital NOVA, Jyväskylä Finland **Max Levander**, Ramboll Finland Ltd **Esa Ikäheimonen**, Ramboll Finland Ltd
10.35	**KEYNOTE** Utilising Digitalisation in Participatory Functional Planning - Case Turku University Hospital **Hanna Petäjä,** Turku University Hospital (Tyks) **Annika Lindblom,** Turku University Hospital (Tyks)

11:30 (10:30 CET) Design Management

Chair: Ari Törrönen, NCC

11:30	A faster, safer, and more efficient way to design and build health care facilities **Simo Hakkarainen, Tero Ollikainen,** Peikko Group
12:00	Early Phase MEP Design **Pauli Keinonen,** MagiCAD Group
12:30	Using BIM in evaluation process of evacuation safety of health care units **Timo Lehtoviita, Jarno Rautiainen,** LAB University of Applied Sciences

14:00 (13:00 CET) Design Management 2

Chair: Anna-Riitta Kallinen, buildingSMART Finland / ARKCON

14:00	BIM Centric Hospital Design the AW2 Way **Tony Fitzpatrick,** AW2 - Architecture Workshop Finland Limited
14:30	Design Thinking to avoid the risk of bullshit in – bullshit out. **Dr. Christophe Vetterli,** walkerproject ag
15:00	Standardized information management in BIM-models within hospital projects at NCC **Lavinius Arva,** NCC

17:00 (16:00 CET) Closing of the Hospital BIM Open 2020

11:30 (10:30 CET) Case Studies

Chair: Minna Alhonen, A-Insinöörit

11:30	OYS2030, World's most intelligent hospital (Oulu University Hospital) **Pekka Jokela, Hannu-Pekka Hirvelä,** NCC
12:00	The Design of the Zealand University Hospital in Køge, Denmark **Giovanni Romiti,** Politecnica Ingegneria ed Architettura S.C.
12:30	MEP Design and Alliance in Kuopio University Hospital Project Uusi Sydän 2025 **Marko Sutinen,** Granlund Kuopio Oy
13:00	Design workshops with hospital employees - an innovative way of designing health care facilities using BIM technology **Maciej Matlok,** Iplusmed.eu, **Włodzimierz Werochowski,** Industria Project

14:00 (13:00 CET) Advanced technologies 1

Chair: Manuel Furlotti, Gravicon

14:00	Will digital be able to transform the health sector as well? **Prof. Anna Osello,** Politecnico di Torino
14:30	Integration between Building Energy Modeling (BEM) and Building Information Modeling (BIM) to improve the cost effectiveness and energy performance of healthcare design. **Marie-France Stendahl,** Lund University and White Architects, **Alejandro Pacheco,** White Architects
15:00	Social BIM – a BIM-based coordination tool for human interaction and participation **Claudio Schifanella,** University of Turin

16:00 (15:00 CET) Advanced technologies 2

Chair: Jyrki Maalahti, YIT

16:00	Virtual reality and thermal comfort studies supporting design in hospital **Esa Nykänen,** VTT
16:30	Rapid Building Reconvertion Based on Mobile Mappin System (MMS), Unmanned Aerial Vehicle (UAV) and Building Information Modelling (BIM) **Dr. Fabrizio Banfi,** Politecnico di Milano, Milan

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