**WEDNESDAY MAY 22**

**09:00 OPENING SESSION**
Venue: Room 4011  Chair: Wim Bakens
Pekka Huovila, Chair of the Scientific Committee
SBE series presentation
Wim Bakens, CIB
Anders Persson, FIDIC

**09:15 KEYNOTE 1 - SOCIAL LICENCE TO OPERATE**
Ilari Aho, Uponor

**10:00 KEYNOTE 2 - GUIDELINES FOR REALIZING CIRCULAR AMBITIONS IN A BUILDING DEVELOPMENT PROCESS**
Wouter Roemaat, Alba Concepts

**10:45 COFFEE**

**11:15 HAPPY PEOPLE MATERIAL, LIFE CYCLES AND CIRCULARITY**

Venue: Room 4011  Chair: Miimu Airaksinen

11:15 A methodology to assess sustainability of the built environment in Latin American neighborhoods: five cases in Southern Chile.
Antonio Zumelzu ( Universidad Austral de Chile)

11:15 RTS EPD’s – Different Methods of Producing Reliable Environmental Information of Building Products in Finland
Laura Santra (The Building Information Foundation RTS sr)

11:15 Assessing the Applicability of the HUL Approach: The Case of the Junction Neighborhood, Toledo, Ohio
Salim Elwazani (Bowling Green State University)

11:30 The role of prosumers in supporting in renewable energies sources
Sara Torabi Moghadam (Politecnico di Torino)

11:45 Housing: Dense, high-rise buildings with green, low carbon solutions. Case study Santiago, Chile Sustainable High-rise Building in Santiago
Erik Polacks (Metropolia UAS)

11:45 Participatory service design and community involvement in designing future-ready sustainable learning landscapes
Niclas Sandstrom (University of Helsinki), Anne Nevgi (University of Helsinki)

12:00 Interaction of obligatory regulations and voluntary ecolabels for climate change mitigation in the Finnish building sector
Rikka Holopainen (Ecolabelling Finland)

12:00 Resource strategies - discussions on remodeling modestic housing and related social impacts
Inge Vestergaard (Karthus School of Architecture)

12:15 PE method to assess the environmental footprint of buildings – result of PEF4Buildings project
Carolin Spirinx (VITO - Flemish Institute for Technological Research)

12:45 LUNCH
13:45 POSITIVE STIMULATION AND WELL-BEING
Venue: Room 4011  Chair: Francesco Reda

WORKSHOP BIM SKILLS FOR ENERGY KNOWLEDGE MANAGEMENT
Venue: Room 4009  Moderators: Tarja Mäkeläinen & Sunil Suwal

CLEAN PLANET
Venue: Room 4010  Chair: Suvi Nenonen

13:45 Developing a transition agenda towards a circular economy: the Dutch case of the province of Overijssel
Bram Entrop (Saxion University of Applied Sciences)

13:45 Health & wellbeing in offices - A study of literature on the Nordic perspective
Melina Forooraghi (Chalmers University of Technology)

13:45 New housing concepts seducing young adults to settle: the case of Deventer and Enschede
Bram Entrop (Saxion University of Applied Sciences)

13:45 Multidimensional evaluation of tenants’ temporal relocation during a renovation: A comparison between two case studies from Sweden
Antonio Serano-Jimenez (University of Seville - Department of Architectural Construction I), Paúla Femenias (Chalmers University of Technology - Department of Architecture and Civil Engineering)

13:45 The role and value of local welfare institutions in multi-cultural areas
Kari Moxeng (Aarhus School of Architecture)

13:45 Infrastructure, innovation and industry as solutions for breaking inequality vicious cycles
Irene Josa (Universitat Politècnica de Catalunya)

15:45 COFFEE

15:45 EMERGING CONCEPTS INTERACTIVE AND INTEGRATIVE URBAN PLANNING GAME
– the sustainable dialogue between happy people and clean planet
Venue: Room 4009  Moderators: Elina Kalliaia & Sanna Ala-Mantila

15:45 Mainstreaming Affordable Sustainable Housing Practices in Developing Countries
Ham Hakaste (Ministry of the Environment)

15:45 Nature Based Solutions (NBS) for sustainable and resilient cities: experiences from Europe and Brazil
Carmen Antuña Rozado (VTT Technical Research Centre of Finland Ltd.)

15:45 Smart and sustainable urban development in Egypt: the case of Nadaa Smart Town
Francesco Reda (VTT Technical Research Centre of Finland Ltd.)

15:45 Circular Economy in the Built Environment: Supporting Emerging Concepts
Petka Huovila (Green Building Council Finland)

15:45 Passive Solar design basics, a way for low emission buildings?
Saren Dietz (Bjerg Arkitektur)

15:45 Green Urban Development: A methodology to calculate site and infrastructure related GHG emissions
Prashant Kapoor (International Finance Corporation, World Bank Group)

16:00 How to transform circular economy from a vision to designs in the urban planning process? Case examples from Finland
Lili Linkola (Ethica Oy)

16:00 Urban development tools for climate change mitigation
Jyr Nieminen (Sweco Finland Ltd.)

16:00 Smart Otaniemi ecosystem – A living lab with real customers
Ismo Heimonen (VTT)

16:00 Circular Economy in the Built Environment: Supporting Emerging Concepts
Petka Huovila (Green Building Council Finland)

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16:15 SMART OTANIEMI ECO SYSTEM – A LIVING LAB WITH REAL CUSTOMERS

16:30 Virtual sensor use cases from building operation data
Davor Ojeda (Granlund Oy)

16:45 SUSTAINABLE BIM IN BRIDGE DESIGN
Anna Kogut (Metropolia UAS)

17:00 EGYPT SUSTAINABLE DEVELOPMENT IN THE NEXT DECADES
Ahmed Hussein (Metropolia)

18:00 CITY RECEPTION
Bus transportation from the venue at 17.30
THURSDAY MAY 23

9:00  KEYNOTE 3 - MAKING SUSTAINABILITY RESILIENT: THE ROLE OF GREEN INFRASTRUCTURE AND NATURE BASE SOLUTIONS
Erik Andersson, Stockholm Resilience Center
Venue: Room 3000  Chair: Anders Persson

09:45  KEYNOTE 4 - MAKING THE CITY MORE EXCITING, INCLUSIVE AND RESILIENCE
Saska Bees, Transformcity
Venue: Room 3000  Chair: Anders Persson

10:30  COFFEE

11:00  CLIMATE CHANGE MITIGATION
Venue: Room 3000  Chair: Ismo Heinonen
11:00 Opportunities for financing sustainable development using complementary local currencies
Ljubomir Janevski (University of Hertfordshire)
11:15 Circular Economy in the Built Environment in Finland - A case example of collaboration
Jessica Karhu (Green Building Council Finland)
11:30 Sustainable Transportation, Case Study: Berlin, Helsinki, New Delhi and Pune
Eric Pollock (Metropolia UAS)
11:45 Optimum tank size for a rainwater harvesting system: Case study for Northern Cyprus
Mustafa Ruso (Sustainable Environment and Energy Systems Graduate Program, Middle East Technical University Northern Cyprus Campus)
12:00 A study on BIM implementation in developing countries for sustainable development
Sunil Suwal (Metropolia University of Applied Sciences)

12:30  LUNCH

13:30  SHARED PROSPERITY
Venue: Room 3000  Chair: Anne Kaiser
13:30 Mineral wool waste-based geopolymers
Juho Ylimäki (University of Oulu)
13:45 A Finnish Environmental Classification for Building Projects - RTS GLT: Experiences and New Developments
Laura Saraola (The Building Information Foundation RTS Oy)
14:00 Housing and service structure concepts for areas with decreasing and ageing population
Ira Verma (Kaalto University, Sotera Institute)
14:15 Processing of use cases for the development of an open platform to support the smart urban development
Alice Schweigkofler (Fraunhofer Italia)
14:30 Promoting the energy refurbishment of social housing: the Klimakit model
Paola Penna (Fraunhofer Italia)
14:45 Advancement of highly Environmentally Sustainable Business Management Concepts with Contexts embedded in Construction Markets
Pekka Huovinen (Business Management PJH, Light Entrepreneur with SLP Group Oy/UKKO.fi Service)

14:00  ADAPTATION AND RESILIENCE TO CLIMATE CHANGE
Venue: Room 3009  Chair: Jorma Säteri
13:30 Analysis of thermal comfort in residential buildings in the city of Hà Tĩnh, Viet Nam
Alexis Vereste (IU Leuven)
13:45 Climate implication and adaptation measures for energy use in buildings - a scoping review
Anna Ekes Stagum (NTNU)
14:00 Do Town Planners in England feel a professional responsibility for a climate-resilient built environment?
Niamh Murtagh (UCL)
14:15 BIM and Energy Efficiency training requirement for the construction industry
Sunti Suwal (Metropolia University of Applied Sciences)
14:30 Multi-Criteria Material Selection for Architecture in Challenging Environments
Leonor Domingos (IICTE - Instituto Universitário de Lisboa)
14:45 A sustainable built environment for healthcare: generative mechanisms for future-proofing
Ria Krystallis (UCL)

15:00  COFFEE

15:30  HEALTHY AND COMFORTABLE INDOOR AND OUTDOOR SPACES
Venue: Room 3000  Chair: Ursula Hartenberger
15:30 Classification of Indoor Environment 2018 and updated Criteria of RTS GLT
Laura Saraola (The Building Information Foundation RTS Oy)
15:45 Impact of hidden defects on the durability and reliability of gas pipelines in cities
Aleksandrs Romanovs (Riga Technical University)
16:00 Development of a Measuring Tool For Walkability in the Street Scale, the Case Study of Hamburg
Nasrin Falkanjan (HafenCity University Hamburg)
16:15 The Negative Impact of Solar Reflections Caused by Reflective Buildings’ Facades: Case Study of the Nasher Museum in Texas
Rania Labb (Texas A&M University, Prairie View A&M University)
16:30 Designing livable urban open spaces in high density cities
Ruffina Thilakaratne (Chu Hai College of Higher Education)
16:45 Evaluation of hybrid heating systems with a combination of fossil and renewable energy sources
Aleksandrs Prozuments (Riga Technical University)

15:30  WORKSHOP
ARCHITECTURAL SPATIAL DESIGN SOLUTIONS FOR SUSTAINABILITY
Venue: Room 4009  Moderators: Taru Lehtinen & Sofie Pelsmakers

17  CLOSING SESSION
Including presentation of best papers awarded by

18 – 22  DINNER CRUISE
Bus transportation from the venue at 18.00

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