

8th Nordic Conference on Construction Economics and Organization

28-29 May, 2015, Tampere, Finland



Leadership for Targeted Change and Proven Advancements

Final program

Wednesday, May 27, 2015

13:00 - 16:00 PhD Workshop

Tampere
University
of
Technology

Chairperson: Stephen Fox

18:30 - 20:30 City Reception

Vapriikki

Thursday, May 28, 2015

09:00 - 10:10 Opening session Thursday

Room 1

Chairperson: Kalle Kähkönen

09:10 SMARTer Construction - The Internet Of Buildings

[Seppo Junnila](#)
Aalto University, Finland

09:40 Research, Development & Innovation: Global State Of The Art In Real Estate And Construction Sector

[Keith Hampson](#)
Sustainable Built Environment National Research Centre, Australia

10:10 - 10:30 Coffee

Conference
Lobby

10:30 - 12:15 **Session 1 Reshaping construction management for improved and resource efficiency** Room 1
Chairperson: Göran Lindahl

- 10:35 **Barriers And Challenges In Employing Of Concurrent Engineering Within The Norwegian Construction Projects**
Johansen Agnar¹; [Youcef Zidane](#)²; Kjersti Bjørkeng Stordal³; Susanne Van Raalte³
¹SINTEF, Norway; ²NTNU, Norway; ³REINERTSEN, Norway
- 10:55 **Understanding Construction Contractors And Their Operations Strategies**
[Helena Lidelöw](#); Kajsa Simu
Luleå University of Technology, Sweden
- 11:10 **Stirring The Construction Project Management With Co-creation And Continuous Improvement**
[Jussi Savolainen](#)¹; Kalle Kähkönen¹; Elisa Varis¹; Olli Niemi¹; Jenni Poutanen²
¹Tampere University of Technology / RTT, Finland; ²Tampere University of Technology / Architecture, Finland
- 11:25 **A Motherless Child? Why Construction Projects Fail**
[Hallgrim Hjelmbrække](#)¹; Jardar Lohne¹; Geir Karsten Hansen²
¹NTNU, Norway; ²Faculty of Architecture and Fine Art, Norwegian University of Science and Technology, Norway
- 11:40 **Generalization In Case Studies And Adaptability Of Concepts In Project Execution From The Oil And Gas To The Construction Industry**
[Øystein Mejlænder-Larsen](#)
Norwegian University of Science and Technology, Norway
- 11:55 **Safety, Space And Structure Quality Requirements In Construction Scheduling**
[Marco Alvise Bragadin](#)¹; Kalle Kähkönen²
¹University of Bologna, Italy; ²Tampere University of Technology, Finland

10:30 - 12:15 Session 2 Digitalised construction and real estate management practices

Room 2

Chairperson: Bhargav Dave

- 10:35 **A BIM Collaboration Lab For Improved Through Life Support**
[Väino Tarandi](#)
KTH, Sweden
- 10:55 **An Innovative Approach To E-Public Tendering Based On Model Checking**
[Marzia Bolpagni](#)¹; Angelo Luigi Camillo Ciribini²; Elisabetta Oliveri³
¹ITC-CNR and Politecnico di Milano, Italy; ²University of Brescia, Italy; ³ITC-CNR, Italy
- 11:10 **Design Management In The Building Process: A Review Of Current Literature**
[Vegard Knotten](#); Fredrik Svalestuen; Ola Lædre; Geir K. Hansen
Norwegian University of Science & Technology, Norway
- 11:25 **BIM Implementation And Organisational Change: A Case Study Of A Large Swedish Public Client**
Susanna Vass; [Hannes Lindblad](#)
KTH The Royal Institute of Technology, Sweden
- 11:40 **Visual Management In Mid-Sized Construction Design Projects**
Petra Bosch-Sijtsema; [Janni Tjell](#)
Sweden
- 11:55 **BIM-based Collaboration Across Organizational And Disciplinary Boundaries Through Knotworking**
[Hannele Kerosuo](#)
Institute of Behavioural Sciences, University of Helsinki, Finland

10:30 - 12:15 **Session 3 Understanding the value of spaces, buildings and built environment** Room 3

Chairperson: Jukka Heinonen

10:35 **Sustainable Facilities Management And Green Leasing: The Company Strategic Approach**

Antje Junghans; [David Collins](#)
Norwegian University of Science and Technology, Norway

10:55 **Life Cycle Costing As An Early Stage Feasibility Analysis: The Adaptable Transformation Of Willy Van Der Meeren's Student Residences**

[Waldo Galle](#); Mieke Vandenbroucke; Niels De Temmerman
Vrije Universiteit Brussel, Belgium

11:10 **Proposed Aspects For Evaluation Of The Value Of Spaces In Historic Buildings**

Mari Oline Giske Stendebakken; Eir Ragna Grytli; [Nils O. E. Olsson](#)
Norwegian University of Science and Technology, Norway

11:25 **Challenges Of Recent Participatory Urban Design Practices In Riga**

[Viktorija Prilenska](#); Roode Liias
Tallinn University of Technology, Estonia

11:40 **Setting The Carbon Footprint Criteria For Public Construction Projects**

[Matti Kuittinen](#)
Aalto University, Finland

11:55 **From The Pilot Project To A Main Stream Practice? Learning Explored In Planning And Design Of A Low-Energy Quarter**

[Susanne Engström](#); Sofia Lidelöw
Luleå University of Technology, Sweden

12:15 - 13:00 **Lunch**

Restaurant Käpy

13:00 - 15:15 **Session 4 Reshaping construction management for improved and resource efficiency** Room 1
Chairperson: Suvi Nenonen

- 13:05 **Management And Planning Under Complexities Of Metro Constructions**
Mahdi Khosravi; Kalle Kähkönen
Tampere University of Technology, Finland
- 13:20 **Advancement Of Platform Development In Industrialised Building**
Emma Viklund; Gustav Jansson
Luleå University of Technology, Sweden
- 13:35 **Time-Thieves And Bottlenecks In The Norwegian Construction Projects**
Youcef Zidane¹; Johansen Agnar²; Bjørn Andersen¹; Erfan Hoseini¹
¹NTNU, Norway; ²SINTEF, Norway
- 13:50 **Managing Cost And Time In A Large Portfolio Of Projects**
Petter Eik-Andresen¹; Andreas D. Landmark²; Agnar Johansen²
¹Norwegian Defence Logistics Organisation, Norway; ²SINTEF Technology & Society, Norway
- 14:05 **Evaluation And Learning -- Experiences From A Construction Project In Norway**
Anette Østbø Sørensen¹; Anandasivakumar Ekambaram²; Nils O. E. Olsson¹
¹Norwegian University of Science and Technology (NTNU), Norway; ²SINTEF, Norway
- 14:20 **On The Need For Iterative Real Estate Projects Models - Applying Agile Methods In Real Estate Developments**
Nils O. E. Olsson; Anette Østbø Sørensen; Gunnar Leikvam
Norwegian University of Science and Technology, Norway
- 14:35 **Take A Chance On Me? Construction Clients' Perspectives On Risk Management**
Göran Lindahl; Abderisak Adam; Per-Erik Josephson
Chalmers University of Technology, Sweden
- 14:50 **The Experience Curve In Bridge Construction**
Christian Brockmann¹; Horst Brezinski²
¹University of Applied Sciences Bremen, Germany; ²TU Bergakademie Freiberg, Germany

- 13:05 **Architectural Competitions And BIM**
Nils Lykke Sørensen; Anne Kathrine Frandsen; Turid Borgenstrand Øien
Statens Byggeforskningsinstitut, AAU CPH, Denmark
- 13:20 **Circumventing Obstacles In Digital Construction Design -- A Workaround Theory Perspective**
Christoph Merschbrock; Alejandro Figueres-Munoz
HiOA, Norway
- 13:35 **Strategies For Representation And Analyzes Of 4D Modeling Applied To Construction Project Management**
Douglas M. Brito¹; Emerson A. M. Ferreira²
¹SEDUR/BA, Brazil; ²Universidade Federal da Bahia, Brazil
- 13:35 **The Contemporaneous Use Of Building Information Modeling And Relational Project Delivery Arrangements**
Heikki Halttula¹; Aki Aapaoja²; Harri Haapasalo³
¹Vianova Systems Finland Oy, Finland; ²VTT Technical Research Centre of Finland, Finland; ³University of Oulu, Finland
- 13:50 **Collaboration With BIM: Learning From The Front Runners In The Norwegian Industry**
Ketil Bråthen
Fafo Institute for Labour and Social Research/The Norwegian University of Science and Technology (NTNU), Norway
- 14:05 **Challenges Of Implementing New Technologies In The World Of BIM - Case Study From Construction Engineering Industry In Finland**
Risto Tulenheimo
A-Insinöörit Suunnittelu Oy, Finland
- 14:20 **The Role Of VDC-professionals In The Construction Industry**
Mathias Gustafsson¹; Pernilla Gluch¹; Sigrid Gunnemark¹; Katharina Heinke¹; Dan Engström²
¹Chalmers University of Technology, Sweden; ²Swerea IVF, Swedish Research, Sweden
- 14:50 **VIBR -- Conceptualising A Virtual Big Room Through The Framework Of People, Process, And Technology**
Bhargav Dave¹; Tarja Mäki²; Pikas Ergo³; Kerosuo Hannele³
¹Aalto University, Finland; ²University of Helsinki, Finland; ³Finland

13:00 - 15:05 **Session 6 Understanding the value of spaces, buildings and built environment** **Room 3**
Chairperson: Marleen Hermans

- 13:05 **Analysis Of On-site Construction Processes For Effective External Thermal Insulation Composite System (ETICS) Installation**
Virgo Sulakatko; Irene Lill; Eneli Liisma
Tallinn University of Technology, Estonia
- 13:20 **Evaluating Sustainability Of Building Projects In Urban Planning**
Rolf Andre Bohne; Ole Jonny Klakegg; Ola Lædre
NTNU, Norway
- 13:35 **Comparative Analysis Of Current Guidance For The Evaluation Of Building Retrofit Investments**
Emlyn Witt; Irene Lill; Tiina Nuuter
Tallinn University of Technology, Estonia
- 13:50 **Urban Development Practices As Anticipatory Action LearningCase Arctic Smart City Living Laboratory**
Sari Hirvonen-Kantola¹; Petri Ahokangas²; Marika Iivari²; Merja Heikkilä²; Helka-Liisa Hentilä¹
¹University of Oulu, Oulu School of Architecture, Finland; ²University of Oulu, Oulu Business School, Finland
- 14:05 **Embodied And Construction Phase Greenhouse Gas Emissions Of A Low-energy Residential Building**
Jukka Heinonen¹; Amalia Pöyry²; Antti Säynäjoki²; Seppo Junnila²; Juha-Matti Junnonen²
¹University of Iceland, Iceland; ²Aalto University, Finland
- 14:20 **Performance Benchmarking In Nordic Water Utilities And The Way Forward Towards Intelligent Utility Leadership Through Smart Water Solutions**
Osmo Seppälä
Finnish Water Utilities Association (FIWA), Finland
- 14:35 **Economic Appraisal Of Energy Efficiency In Buildings Using Cost-Effectiveness Assessment**
Pekka Tuominen¹; Francesco Reda¹; Waled Dawoud²; Bahaa Elboshy²; Ghada Elshafei²; Abdelazim Negm²
¹VTT Technical Research Centre of Finland, Finland; ²Egypt-Japan University of Science and Technology, Egypt

15:05 - 15:45 Coffee

Conference
Lobby

15:30 - 17:20 Session 7 Innovations for improved construction quality and performance

Room 1

Chairperson: Väinö Tarandi

15:35 **The Extent Of Integration Along The Front-end Of The Project Lifecycle: A Marketing Perspective On Two Major Contractors**

Hedley Smyth¹; [Ilona Kusuma](#)²

¹The Bartlett School of Construction and Project Management, UCL, United Kingdom; ²University College London, United Kingdom

15:55 **Theoretical 71-Concept Platform For Advancing Construction-Related Business Management**

[Pekka Huovinen](#)

Tampere University of Technology, Finland

16:10 **Social Motivations For Knowledge Sharing In Construction Companies**

[Mary Lundberg](#); Helena Lidelöw

Luleå University of Technology, Sweden

16:25 **The Changing Role Of The Client In Driving Innovation For Design-Build Projects: Stakeholders' Perspective**

Nida Kiliinc¹; Ibrahim Yitmen²; [Gozde Basak Ozturk](#)³

¹European University of Lefke, Department of Civil Engineering, Gemikonagi, Lefke, Kibris, Mersin 10, Turkey; ²Eastern Mediterranean University, Department of Civil Engineering, Gazimagusa, Kibris, Mersin 10, Turkey; ³Adnan Menderes University, Department of Civil Engineering, Aytepe Mevkii, Aydin, Turkey

16:40 **Towards Business Potential Of Workplace Services In Finland**

Tuuli Jylhä¹; Mikko Virtaneva¹; Maiju Vuolle²; [Suvi Nenonen](#)¹

¹Aalto University, Finland; ²Tampere University of Technology, Finland

16:55 **Competitive Dialogue: Driving Innovation Through Procurement?**

[Kim Haugbølle](#)¹; Daniel Pihl²; Stefan Christoffer Gottlieb²

¹DTU Technical University of Denmark, Denmark; ²Danish Building Research Institute, Aalborg University, Denmark

15:45 - 17:05 **Session 8 Other research-based or business-based results having linkage to the overall conference theme** Room 2

Chairperson: Antti Peltokorpi

15:50 **A Framework For Managing Post-disaster Housing Reconstruction**

Abdulquadri Ade Bilau; Emlyn Witt; Irene Lill
Tallinn University of Technology, Estonia

16:10 **A Novel Approach On Assessing Daylight Access In Schools**

Leif D. Houck
University of Life Sciences, Norway

16:25 **The Balance Of Unbalanced Bidding**

Johan Nyström
VTI, Sweden

16:40 **Stakeholders' Views And Experiences Of Leadership Education In Construction: Suggestions For Improvements**

Christine Räisänen; Josephson Per-Erik; Bert Luvö
Chalmers, Sweden

15:30 - 16:45 **Session 9 Understanding the value of spaces, buildings and built environment** Room 3

Chairperson: Ole Jonny Klakegg

15:35 **The Development Path Of An Academic Co-working Space On Campus - Case Energy Garage**

Riikka Kyrö; Karlos Arto
Aalto University School of Science, Finland

15:50 **Creating Shared Value In A Construction Project - A Case Study**

Mia Andelin; Jessica Karhu; Seppo Junnila
Aalto University, Finland

16:05 **Introduction Of Sustainable Low-cost Housing In Ethiopia -- An Innovation Diffusion Perspective**

Bengt Hjort¹; Kristian Widén²
¹Halmstad University, Sweden; ²Halmstad University, Sweden

16:20 **Heat Loss Rate Of The Finnish Building Stock**

Jaakko Vihola; Jaakko Sorri; Juhani Heljo; Paavo Kero
Tampere University of Technology, Finland

Friday 29th May

19:00 - 22:00

Dinner

Näsinneula

Friday, May 29, 2015

09:00 - 10:10

Opening session Friday

Room 1

Chairperson: Brian Atkin

09:10

Continuous Improvement of Operational Efficiency – The Skanska Way of Leading Change

[Tuomas Särkilähti](#)

Skanska Oy, Finland, Finland

09:40

Innovative Contract And Project Models In Infrastructure Projects

[Bjørn Andersen](#)

Norwegian University of Science and Technology, Norway

10:10 - 10:30

Coffee

Conference
Lobby

10:30 - 12:15 **Session 10 Different stakeholders in the real estate and construction sector - Solutions for their integration and management** Room 1

Chairperson: Kim Haugbølle

- 10:35 **Managing End User Experience In Office Fit-Out Projects**
Liisa Lehtiranta
A-Insinöörit Rakennuttaminen Oy, Finland
- 10:55 **Stakeholder Participation For Sustainable Property Development**
Carlos Martinez; Stefan Olander
Construction Management, Lund University, Sweden
- 11:10 **Complex Decision-making Process Of The Public Sector Case Tampere Rantaväylä**
Terttu Vainio
VTT - Technical Research Centre of Finland, Finland
- 11:25 **A Co-creation Centre For University--industry Collaboration -- A Framework For Concept Development**
Mervi Huhtelin; Suvi Nenonen
Tampere University of Technology, Finland
- 11:40 **New Boundary Spanners: Emerging Management Roles In Collaborative Construction Projects**
Tina Karrbom Gustavsson
KTH Royal Institute of Technology, Sweden
- 11:55 **The Struggle Of Multiple Supply Chain Structures: Theoretical Overview**
Petri Uusitalo¹; Helena Lidelöw²
¹Stora Enso OY, Finland; ²Luleå University of Technology, Sweden

10:30 - 12:15 Session 11 New procurement models and approaches

Room 2

Chairperson: Christian Brockmann

- 10:35 **The Beauty Of An Incentivized Capability-and-fee Competition Based Target-cost Contracting**
[Pertti Lahdenperä](#)
VTT Technical Research Centre of Finland, Finland
- 10:55 **Critical Review Of Procurement Method Research In Construction Journals**
[Shamil Naoum](#); Charles Egbu
London South Bank University, United Kingdom
- 11:10 **Project Delivery Systems In Finnish New Building Construction -- A Review Of The Last Quarter Century**
[Pertti Lahdenperä](#)
VTT Technical Research Centre of Finland, Finland
- 11:25 **Ethics In Commissioning**
[Lohne Jardar](#); Ola Lædre; Iman Shirkavand; Kim Schneider; Martine Firing
Norwegian University of Science and Technology (NTNU), Norway
- 11:40 **Procurement In The Real Estate And Construction Sector (RECS) -- Preliminary Context-specific Attributes**
[Marika Tuomela-Pyykkönen](#)¹; Kirsi Aaltonen²; Harri Haapasalo¹
¹University of Oulu, Finland; ²University of Oulu, Department of Industrial Engineering and Management, Finland
- 11:55 **Constructing Health Care Spaces: The Complex Role Of Visualizations In Negotiating Hospital Designs And Practices**
[Chris Harty](#)¹; Kjell Tryggestad²; Peter Holm Jacobsen²
¹University of Reading, United Kingdom; ²Copenhagen Business School, Denmark

10:30 - 12:35 Session 12

Room 3

Chairperson: Hedley Smyth

10:35 **Social And Economic Importance Of Water Services In The Built Environment: Need For More Structured Thinking**

[Tapio Katko](#); Jarmo J. Hukka
Tampere University of Technology, Finland

10:55 **Resilient Asset Management And Governance For Deteriorating Water Services Infrastructure**

[Jarmo Hukka](#)¹; Tapio Katko²
¹CADWES Research Group, Tampere University of Technology, Finland; ²CADWES Research Team, Tampere University of Technology, Finland

11:10 **Modelling Industrial Projects: Barriers To Innovation**

[Tassia Silva](#); Karina Coelho; Silvio Melhado
University of Sao Paulo, Brazil

11:25 **A synthesis of studies on renovation profitability**

[Karin Farsäter](#); Dennis Johansson; Åsa Wahlström; Kristina Mjörnell
LTH, Sweden

11:40 **Upgrading Small And Micro Size Companies Business Know-how**

[Eero Nippala](#)¹; Terttu Vainio²
¹TAMK, Finland; ²VTT Technical Research Centre of Finland Ltd, Finland

11:55 **Advanced Information Management For Finnish Water Utilities**

[Jyrki Laitinen](#)
Finnish Environment Institute SYKE, Finland

12:10 **Conflicts And Collaboration In Inter-Municipal Water Planning And Management**

[Vuokko Kurki](#); Tapio Katko
Tampere University of Technology, Finland

12:15 - 13:00 Lunch

Restaurant
Käpy

13:00 - 14:00 **Session 13 Different stakeholders in the real estate and construction sector - Solutions for their integration and management** **Room 1**

Chairperson: Emlyn Witt

13:05 **Significance Of Knotworking From The Client's Point Of View**

[Jenni Korpela](#)

Finland

13:20 **Multi-Disciplinary Discourse On Design Related Issues In Construction Site Meetings**

[Tarja Mäki](#)

University of Helsinki, Finland

13:35 **Nordic Campus Retrofitting Concepts -- Scalable Practices**

[Robert Eriksson](#)¹; Suvi Nenonen¹; Göran Lindahl²; Antje Junghans³; Susanne Balslev Nielsen⁴

¹Aalto University, Finland; ²Chalmers University of Technology, Sweden; ³NTNU, Norway; ⁴DTU, Denmark

13:00 - 14:00 **Session 14** **Room 2**

Chairperson: Stefan Gottlieb

13:05 **Purchasing Strategies In Industrialized Building: A Comparison Of Australian And Swedish Companies**

[Louise Bildsten](#)

Lund University, Sweden

13:20 **Urban Vision -- A Static Destination Or A Dynamic Process?**

[Eelis Rytkönen](#)¹; Suvi Nenonen¹; Suvi Tuiskunen²

¹Aalto University, Finland; ²University of Tampere, Finland

13:35 **Behind The Scenes Of Public Construction Clients -- Collecting Data On Commissioning Activities And Organizational Approach**

Pieter Eisma; [Marleen Hermans](#)

TU Delft, Netherlands

14:00 - 14:30 **Coffee**

**Conference
Lobby**
