

CURRICULUM VITAE Professor, Dr.ing TORE BRANDSTVEIT HAUGEN - November 2016

Tore Haugen is professor in architectural management at NTNU – The Norwegian University of Science and Technology, Department of Architectural Design and Management. Haugen finished his doctor degree at NTNU in 1990, combined with studies at the University of California, Berkeley and at the Royal Institute of Technology, Stockholm. Haugen was full time employed dean of Faculty of Architecture and Fine Art during two periods from 2005 – 2013. Professor Haugen was the elected rector of the Nordic Academy of Architecture for the period 2013 - 2015.

Haugen's main professional interest lies within project management and facilities management. He has been active as member and chairman for a number of international conferences, and had many positions of honors in ISO, CIB and EuroFM. During the period 1980 - 1993 Haugen worked as a researcher and manager at SINTEF Architecture and Building Technology responsible for a number of research projects in the area of Energy Conservation in the built environment and Building maintenance and modernization.

In 2001 Haugen established the Norwegian Centre for Real Estate and Facilities Management at NTNU (<http://www.metamorfose.ntnu.no/>). This is a multi- disciplinary center for education and research in the area of real estate and facilities management, based on cooperation between several faculties within NTNU and SINTEF. The activity led to the development of two master programs offered at NTNU from 2005 and a number of R&D projects the area of Facilities Management and Real Estate.

In 2013 Haugen was appointed by NTNU's Rector Gunnar Bovim to be head of the NTNU Vision project. The task for the Vision group was to compile visions for campus development for NTNU in a 50-year perspective. The report "NTNU 2060 Visions for Campus development" details how campus development can contribute to sustaining and developing NTNU as an attractive university, based on its distinctive character.

PERSONAL

Name: Tore I. Brandstveit Haugen Born: 03-06-1954, Norwegian citizen

EDUCATION

1975-1979 Norwegian Institute of Technology, Siv.ing. Bygg
1987-1990 Norwegian Institute of Technology, Dr.ing.
Parts of the studies at UC Berkeley, USA and KTH, Sweden.

Visiting Scholar/professor:

University of Karlsruhe, Germany 1984, University of Berkeley / Lawrence Berkeley Laboratory, USA 1986-1987, Royal Institute of Technology, Stockholm 1989, Stanford University, Centre for Integrated Facilities Engineering, 2004-2005 (part time).

PROFESSIONAL EXPERIENCE

2013-2015 Elected Rector, Nordic Academy of Architecture (NAA)
2005-2013 Dean, Faculty of Architecture and Fine Art, NTNU, Trondheim, Norway
2002- Professor, Department of Architectural Design and Management
1992-2002 Professor, Department of Building Technology, NTH / NTNU
1996-1999 Project director, SiB – The Integrated Building Process
1994-1996 Head of Department of Building Technology (also head 2001-2002)
1990-1992 Division manager SINTEF Architecture and Building technology

Major research and development projects (selected):

- Project director "NTNU 2060 Visions for campus development 2013-2015."
<https://www.ntnu.no/web/campusframtid/visjonsrapporten>
- Chairman of the board Research Centre on Zero Emission Buildings (ZEB), which is one of new national Centre for Environment-friendly Energy Research (FME) 2009-
- Chairman for Research and development program on *Municipal real estate/ Facilities management*, NTNU 2008 – 2013. Research program funded by Minister of Local Government and Regional Development.
- Member of working commission for Energy efficiency in buildings (*Arbeidsgruppe for energieffektivisering i bygg*), Minister of Local Government and Regional Development, 2010.
- During the periode 1982 – 1994 as a researcher and manager at SINTEF Architecture and Building

Technology responsible for a number of research projects in the area of Energy Conservation in the built environment and Building maintenance and modernization.

- Project director for *SIB- The Integrated Building Process* 1996-1999. SIB was a multidisciplinary large R&D-project jointly funded by the Norwegian Research Council and four key players in the Norwegian building and construction industry: ABB Installation AS, IGP AS, L.A. Lund AS and Veidekke ASA. Total budget 64 million NOK. NTNU was the academic partner in the project.
- International R&D co-operation within Architectural Management and Facilities Management with Chalmers, KTH, CFM - Salford University, HUT, TU Delft, TU München
- In 2001 Haugen established the Norwegian Centre for Real Estate and Facilities Management at NTNU (<http://www.metamorfose.ntnu.no/>). This is a multi- disciplinary centre for education and research in the area of real estate and facilities management, based on cooperation between several faculties within NTNU and SINTEF. The activity has led to the development of two new master programs offered at NTNU from 2005 and a number of R&D projects the area of Facilities Management and Real Estate.
- Main or co-supervisor for appr. 20 doctoral students and a high number of masterstudents.

PROFESSIONAL ASSIGNMENTS (selected)

- Member of evaluation committees to evaluate applications for professorships at NTNU, KTH, Chalmers, TU Delft, Hong Kong Polytechnic, Ben Gurion University, QUT, Brisbane
- External examiner at doctoral defences in Denmark, Sweden, Finland, UK and Norway.
- Member of scientific and program committees for large number of international and national conferences (CIB, EuroFM, NordicFM, NIF, Tekna, NBEF)
- Chairman for several large conference like EuroFM Research network in Copenhagen 2004, CIB W70 Conference at NTNU 2006 and Competitive Campuses at NTNU Trondheim 2007.
- Member of Advisory Board for The Royal Danish Academy of Fine Arts, Schools of Architecture 2010-2012.
- Member of panel for Research Assessment Exercise for Tampere University of Technology 2011.
- Member of external evaluation committee for "Digital building and construction" Denmark 2004-2007.
- Member in Expert panel "Byggherren med kunden i fokus", Formas, Sweden 2000 - 2006
- Chairman Research Forum EuroFM - European Facilities Management Network 1997-2003
- Member of evaluation board for OTB Research Institute for Housing, Urban and Mobility Studies, TU Delft, Holland, September 2000.
- Member of Scientific committee in a number of CIB conferences and seminars since 1992.
- Scientific advisor for BA-program, Norwegian research council 2001- 2003.
- Member Editorial Board of *Journal of Facilities Management* 2001 – 2003.

SELECTED PUBLICATIONS

Peer-reviewed journals:

Haugen, Tore, Klungseth, Nora Johanne;. In-house or Outsourcing FM Services in the Public Sector: A Review of 25 Years Research and Development. *Journal of Facilities Management* 2017 (In press).

NTNU Lædre, Ola; Lohne, Jardar; Haugen, Tore. Internal rent – experiences from public sector in Norway. *Facilities* 2016; Volum 34.(1/2) s. 101-116.

Moum, A., Koch, C. and Haugen, T. "What did you learn from practice today? Exploring experiences from a Danish R&D effort in digital construction", *Advanced Engineering Informatics*, Online publication Oct-2008, DOI information: 10.1016/j.aei.2008.08.002

Haugen, Tore I. Guest editorial. CIB W070 2006 Trondheim International Symposium: Meeting Changing User Demands through Adapability. *Facilities* 2007 ;Volum 25.(3/4)

Lædre, O., Austeng, K., Haugen, T, Klakegg, O J. "Procurement routes in public building and construction projects". *Journal of construction engineering and management*, 2006; Volum 132.

Haugen, Tore I. Selected papers from EuroFM Copenhagen 2004. *Facilities* 2004; Volum 22.(11/12).

Haugen, T.I. "Contracting out Property and Facilities Services in Norwegian Municipalities". *Nordic Journal of Surveying and Real Estate Research* 2003 ;Volum 1. s. 52-70.

Peer-reviewed books / book chapters:

Haugen, Tore; Aasen, Tone Merethe. Campus Alive - Transformation and Integration of University Work and Campus Space. I: CFM Second Nordic Conference Proceedings 29-30 August 2016. Polyteknisk Boghandel og Forlag 2016 ISBN 9788750211044. s. 8-15.

Collins, David; Junghans, Antje; Haugen, Tore. Green and Sustainable – How are These Terms Reflected in the Context of Facilities Management?. I: CFM Second Nordic Conference Proceedings 29-30 August 2016. Polyteknisk Boghandel og Forlag 2016 ISBN 9788750211044. s. 115-127.

Collins, David; Junghans, Antje; Haugen, Tore. Green leasing in theory and practice: A study focusing on the drivers and barriers for owners and tenants of commercial offices. Raportti (Tampereen teknillinen yliopisto. Rakennustuotanto ja -talous) 2016.

Hoxha, Visar; Haugen, Tore; Bjørberg, Svein; Temeljotov Salaj, Alenka. Developing sustainable energy efficient buildings – A transnational knowledge transfer experience between Norway and Kosovo. Raportti (Tampereen teknillinen yliopisto. Rakennustuotanto ja -talous) 2016 ;Volum 5. s. 715-727

Moum, Anita; Bråthen, Ketil; Flyen, Cecilie; Haugen, Tore. Learning From SamBIM - A Norwegian Innovation Project About BIM-driven Collaboration in Ambitious Building Projects.. Raportti (Tampereen teknillinen yliopisto. Rakennustuotanto ja -talous) 2016 ;Volum 5. s. 917-929.

Pallaska, Elvida; Haugen, Tore; Hoxha, Visar; Finocchiaro, Luca; Temeljotov Salaj, Alenka. Sustainability by improving energy efficiency in traditional housing in Kosovo. Raportti (Tampereen teknillinen yliopisto. Rakennustuotanto ja -talous) 2016 ;Volum 1. s. 506-517.

Finocchiaro, Luca; Despa, Ana Mihaela; Saualia, Lisbet; Høyem, Harald; Haugen, Tore. ENVIRONMENTAL PERFORMANCE OPTIMIZATION OF A HISTORICAL COURTYARD HOUSE IN CHINA.. I: Architecture in (R)evolution. PLEA2015 conference proceedings. Bologna: Ass. Building Green Futures 2015 ISBN 978-88-941163-1-1.

Haugen, Tore I. ARCHITECTURE BETWEEN ART AND SCIENCE - Architectural education for the 21th century. CONDITIONS magazine 2011 ;Volum 8. s. 62-63 Haugen, Tore I; Moum, Anita;

Bröchner, Jan. Changing User Demands on Buildings. Proceedings CiB W70 Trondheim International Symposium. Trondheim: NTNU, Nordic FM 2006 (ISBN 82-7551-031-7).

Bröchner, J. and Haugen, T.I. Proceedings of the third European Research Symposium in Facilities Management, Copenhagen 12-14 May 2004. NTNU, Trondheim, Norway (ISBN 82-7551-028-7) 206 s.

Haugen, Tore I. Facilities Management: Innovation and Performance. E & FN Spon 2004 (ISBN 0415-32146-8) 166 s.

Books / book chapters:

Haugen, Tore I; Aasen, Tone Merethe; Blakstad, Siri Hunnes; Burheim, Lindis; Moltubakk, Nils Jørgen; Tolstad, Ole; Lohne, Jardar. NTNU 2060 Visjoner for Campusutvikling. Trondheim: Norges teknisk-naturvitenskaplige universitet 2014 (ISBN 978-82-7551-098-1) 132 s.

Haugen, Tore I. Bygg- og eiendomsforvaltning. I: Enøk i bygninger - Effektiv energibruk, 3.utgave. Oslo: Gyldendal Undervisning 2007 ISBN 978-82-05-37496-6. s. 382-399

Haugen, Tore I. Energieffektiv prosjektering og oppføring av bygninger. I: Enøk i bygninger - Effektiv energibruk, 3.utgave. Oslo: Gyldendal Undervisning 2007 ISBN 978-82-05-37496-6. s. 399-411

Haugen, Tore. Facility Management - Forvaltning, drift, vedlikehold og utvikling av bygninger. Fakultet for arkitektur og billedkunst, Tapir Akademiske Forlag 2008 (ISBN 82-7551-041-4) 30 s.

