

CURRICULUM VITAE

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Date of birth 09.05.1965
Nationality Norwegian
Languages Norwegian, English, and some French



Summary of qualifications

25 years experience within the fields of energy efficient buildings, indoor environment, and environmental assessment of buildings. Experience include research and development, education, design and consulting.

Professional history

2015 – Full time professor in Integrated Energy Design, Department of Architecture, History and Technology, Norwegian University of Science and Technology
2014 – 2015 Chief Researcher, SINTEF Building and Infrastructure
2011 – 2013 Head of Environment, LINK arkitektur AS
2007 – 2015 Professor II (20%) in Energy and Environment, Department of Architecture, History and Technology, Norwegian University of Science and Technology
2009 – 2010 Senior Advisor Energy and Environment, Skanska Norway AS
1991 – 2010 Researcher/Senior Researcher, SINTEF Building and Infrastructure, Energy and Environment

Education

1997 – 2000 Ph.D. in Integrated Energy Design, Department of Architecture, History and Technology, Norwegian University of Science and Technology, Trondheim, Norway
1990 – 1991 Master of Science, Building Energy Systems, University of Colorado, USA
1984 – 1988 Master of Science (Sivilingeniør), Department of Civil Engineering, Norwegian Technical University, Trondheim, Norway

Accreditations and special assignments 2007-2014

2012 BREEAM Accredited Professional, Norwegian Green Building Council
2012 - Member of the technical advisory committee for Norwegian Green Building Council.
2012 Leader of the scientific committee for PassivhusNorden'12, Trondheim, Norway.
2012 - Member of British Research Establishment Standing Panel of Experts
2011 Leader of the working group dedicated to adapt the criteria within BREEAM Energy and Health/Wellbeing, assigned by the Norwegian Green Building Council.
2010, 2012 Member of scientific committee for Sustainable Building Conferences, Helsinki and Oulu
2009 Accredited Professional LEED: Leadership in Energy and Environmental Design, US Green Building Council.
2007 – Referee for the international journals Building and Environment, Applied Energy, Energy and Buildings, Elsevier and MDPI.

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PhD Supervision 2007-2014

- 2014 - Main supervisor for PhD fellow Torhildur Kristiansdottir on the thesis " Life cycle analysis of zero emission buildings: Methodology, pilot and concept buildings"
- 2012 - Co-supervisor to PhD fellow Klara Good on the thesis "PV-Thermal solar systems for building integration"
- 2011 - Co-supervisor to PhD fellow Andreas Eggertsen Teder on the thesis "Typologies in Environmentally Adapted Zero Emission Office Buildings"
- 2011 - Co-supervisor to PhD fellow Julien Boureille on the thesis "Calculation methodology for Zero Emission Buildings"
- 2009 - 2013 Co-supervisor to PhD fellow Klaudia Farkas on the thesis "Architectural Integration of Photovoltaics", Department of Architecture, History and Technology, Norwegian University of Science and Technology, Trondheim, Norway

PhD Adjudication

- 2015 Torill Meistad: "Sustainable building – From role model projects to industrial transformation", Department of Civil and Transport Engineering, Norwegian University of Science and Technology, Trondheim, Norway.
- 2015 Andrea Mortensen: "Energy Reonvation of Danish Single-Family Houses. An investigation of barriers and motivation factors", Department of Civil Engineering, Group of Architectural Engineering, Aalborg University, Denmark.
- 2015 Jouri Kanters: "Planning for Solar Buildings in Urban Environments. An analysis of the design process, methods and tools", Lund University, Sweden.
- 2015 Steinar Grynning: "Transparent facades in low energy office buildings – Numerical simulations and experimental studies", Department of Architecture, History and Technology, Norwegian University of Science and Technology, Trondheim, Norway.
- 2014 Nicolas Galiotto: "The Integrated Renovation Process. A Holistic Methodology Towards Nearly Zero Energy Buildings." Department of Civil Engineering, Group of Architectural Engineering, Aalborg University, Denmark.
- 2014 Gitte Gylling H. Olesen: "A model for enquiry of sustainable homes", Department of Architecture, Design and Media Technology, Aalborg University, Denmark.
- 2013 Birgit Risholt: "Zero energy renovation of single family houses", Department of Architecture, History and Technology, Norwegian University of Science and Technology, Trondheim, Norway.
- 2013 Francesco Goia, "Dynamic Building Envelope Components and Nearly Zero Energy Buildings", Department of Architecture, History and Technology, Norwegian University of Science and Technology, Trondheim, Norway.
- 2012 Riikka Holopainen: "A human thermal model for improved thermal comfort", Aalto University, Helsinki, Finland.
- 2011 Camilla Brunsgaard: "Understanding of Danish Passive Houses based on Pilot Project Comfort Houses", Department of Architecture, Design and Media Technology, Aalborg University, Denmark.
- 2008 Igor Sartori: "Modelling energy demand in the Norwegian building stock", Department of Architecture, History and Technology, Norwegian University of Science and Technology, Trondheim, Norway

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- 2007 Hanne Tine Ring Hansen: “Senitivity Analysis as a Methodical Approach to the Development of Design Strategies of Environmentally Sustainable Buildings”, Aalborg University, Denmark.
- 2005 Annemie Wyckmans: “Intelligent Building Envelopes”, Department of Architecture, History and Technology, Norwegian University of Science and Technology, Trondheim, Norway
- 2003 Sigrid Melby Strand: “The MaSe decision support system. Development of an integrated information system for the selection of environmentally preferable materials and products in the building process ”, Faculty of Engineering Science and Technology, Norwegian University of Science and Technology.

R&D projects, selected

Project	ZEB – Zero Emission Buildings
Client	Norwegian Research Council and several industry parnters.
Budget	ca. 300 mill NOK
Project period	2009-2016
Function in project	Leader of Task 5: Pilot buildings.
Project	Smartbygg – Smart Energy Efficient Builings
Client	Norwegian Research Council and several Industry partners
Budget	ca. 35 mill NOK
Project period	2002-2007
Function in project	Project Coordinator and leader of WP on BIPV
Project	Nordic Analysis of Climate Friendly Buildings
Client	Nordic Council of Ministers, Nordic Innovation
Duration	2010
Function in project	Project leader
Project	Environmentally Responsive Elements in Buildings
Client	International Energy Agency - Energy Conservation in Buildings Program and the Norwegian Research Council
Duration	2005-2008
Function in project	Leader of subtask B: Integrated concepts

Publications: peer-reviewed papers and books, selected 2007-2015

- Andresen, I. and A.G. Hestnes (2007): “**Multi-criteria decision-making (MCDM) methods**”, in *Sustainable Solar Housing. Strategies and Solutions*, edited by R. Hastings and M. Wall, page 63-70, ISBN 978-184407-325-2, EarthScan, London.
- Andresen, I., T. Kleiven, M. Ryghaug og B. Malvik (red 2007): “**Smarte, energieffektive bygninger**”, ISBN 878-82-519-2237-1. Tapir Academic Publishing, Trondheim, Trondheim.
- Kleiven, T. og I. Andresen: “**Smarte fasader**” (2007), in Andresen, I., T. Kleiven, M. Ryghaug og B. Malvik (red) *Smarte, energieffektive bygninger*, side 81-91, ISBN 878-82-519-2237-1. Tapir Academic Publishing, Trondheim, Norway.
- Hestnes, A.G. og I. Andresen: “**Smart prosjektering**” (2007), i Andresen, I., T. Kleiven, M. Ryghaug og B. Malvik (red) *Smarte, energieffektive bygninger*, side 28-43, ISBN 878-82-519-2237-1. Tapir Academic Publishing, Trondheim, Norway.
- Andresen, I., Dokka T.H., Lexow T.E. (2008), “**New Norwegian Standard for Certification of Low Energy and Passive Houses**”, Paper at the 1st Nordic Conference on Passive houses, April 2-3 2008, Trondheim, Norway.
- Andresen, I., K. Ellehaug, B. Karlsson, J. Nieminen (2008): “**Solar heating systems for passive houses in the Nordic countries**”, Paper at the 1st Nordic Conference on Passive houses, April 2-3 2008, Trondheim, Norway.
- Haase, M. and I. Andresen (2008): “**Key issues in energy-efficient building envelopes of Norwegian office buildings**”, *Proceedings of the 8th Symposium on Building Physics in the Nordic Countries*, (C. Rode ed.) Report R-189, Dept. of Civil Engineering, Technical University of Denmark, Kgs. Lyngby: 49-56
- Haase, M., I. Andresen, B. Time, and A.G. Hestnes (2008): “**Energy-efficient buildings in Norway – from low energy standards to net zero energy buildings**”, 1st *International Conference on Solar Heating, Cooling and Buildings (EuroSun)*, Lisboa 7 – 10 October 2008.

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- Haase, M., I. Andresen, B. Time, and A.G Hestnes (2008): “**State-of-the-art Sustainable energy efficient building envelopes in Norwegian Office Buildings**”, *World Sustainable Building Conference 2008*, Melbourne 21 – 22 September.
- Haase, M., I. Andresen, T. Kvande, B. Time, and A.G. Hestnes (2008): “**Energy efficient office buildings in Norway – a survey of climate, energy concept and energy performance**”, *7th European Conference Solar Energy in Architecture and Urban Planning*, March 11th-14th, Berlin, Germany.
- Haase M., I. Andresen, B. Time, and A.G. Hestnes (2008): “**Sensitivity analysis in the design of climate adapted building envelopes in Norway**”. *ANZAScA'08 Innovation, Inspiration and Instruction: New knowledge in the Architectural Sciences*. (135-142). Newcastle, Australia.
- Haase, M. and I. Andresen (2009): “**The Role of Passive Cooling Strategies for Norway**”, *International Journal of Climate Change: Impacts and Responses*, Volume 1 (2), pp. 63-74, CGPublisher, Australia, ISSN 1835-7156.
- Haase, M., Andresen, I., and Dokka, TH. (2009), “**The role of advanced integrated facades in the design of sustainable buildings**”, *Journal of Green Building*, Volume 3 (2), 2009, College Publishing, USA, ISSN 1552-6100.
- Haase, M., Andresen, I., Time, B., and Hestnes, A.G (2009): “**The role of air tightness and heat recovery in the ventilation system of energy-efficient office buildings in Norway**”, Proceedings of BuildAir / AIVC conference, Berlin, Germany.
- Haase, M., Andresen, I., and Wigenstad, T. (2009): “**Energy-efficient building refurbishment in Norway**”, Proceedings of CISBAT conference (CISBAT), Lausanne, Switzerland.
- Haase, M., Andresen, I., Time, B., and Hestnes, A.G. (2009): “**Design and future of energy-efficient office buildings in Norway**”, Proceedings of Building Simulation conference (BS2009), Strathclyde, U.K.
- Haase, M., Andresen, I., and Dokka, T.H. (2009): “**Guidelines for sustainable building envelopes**”, Proceedings of International conference on sustainable development, Utrecht, The Netherlands.
- Andresen, I., K. Farkas, A.G. Hestnes (2009): “**Architectural integration of photovoltaic cells: Overview of materials and products from an architectural point of view**”, Proceedings of the 3rd CIB International Conference on Smart and Sustainable Built Environment, September 2009, Delft, The Netherlands.
- Haase, M. and Andresen, I. (2009): “**Energy efficient building envelopes – an optimization strategy for sustainable development**”, Proceedings of International conference on sustainable development, Utrecht, The Netherlands.
- Haase, M. and Andresen, I. (2009): “**Climate change – an opportunity for sustainable development in Norway**”, Proceedings of International conference on sustainable development, Utrecht, The Netherlands.
- Haase, M. and Andresen, I. (2009): “**Impact of climate on energy-efficiency of buildings in Norway**”, Proceedings of the International conference on Smart and Sustainable Built Environments (SASBE2009), Delft, The Netherlands.
- Haase, M., Andresen, I., Time, B., and Hestnes, A.G. (2009): “**Low energy standards in high latitudes - energy-efficient office buildings in Norway**”, Proceedings of Cold Climate HVAC 2009 conference, Sisimut, Greenland.
- Haase, M., I. Andresen, B. Time and A.G. Hestnes (2010): “**Building for climate change – meeting the design challenges of the 21st century**”. *Nordic Journal of Architectural Research*, Volume 22, No 1/2, 2010, 11 pages.
- Haase, M., Andresen, I., Gustavsen, A. and Hestnes, A.G. (2010): “**ZEB concepts in office buildings in Norway**”, Proceedings of Sustainable Building conference (SB10) Western Europe, Maastricht, Netherlands.
- Haase, M., Andresen, I., Wigenstad, T. and Hestnes, A.G. (2010): “**Cost effective energetic refurbishment of office buildings in Norway**”, Proceedings of Eurosun 2010 conference, Graz, Austria, ISBN 978-3-901425-13-4.
- Haase, M., Andresen, I., Time, B. and Hestnes, A.G. (2010): “**Development of future weather data set based on SRES scenario**”, Proceedings of Sustainable Building conference (SB10) Northern Europe, Dipoli, Espoo, Finland, pp 555 – 562, ISBN 978-951-758-506-4, ISSN 0356-9403.
- Haase, M., Andresen, I., Time, B., and Hestnes, A.G. (2010): “**Sensitivity analysis as a sustainable building design help**”, *Procedia - Social and Behavioral Sciences*, 2010. 2(6): p. 7672-7673.
- Sartori, I., T.H. Dokka and I. Andresen (2011): “**Proposal of a Norwegian ZEB Definition: Assessing the implications of design**”. *Journal of Green Building*, College Publishing, Summer 2011, Volume 6, No. 3, pp. 133-150.
- Andresen, I., K.E. Thomsen, and Å. Wahlström (2011): “**Nordic Market for Climate Friendly Buildings - Status, Barriers and Opportunities**”, Proceedings of the ECEEE 2011 Summer Study: *Energy efficiency first: The foundation of a low-carbon society*, Presqu'île de Giens, France, ISBN: 978-91-633-4455-8.
- Haase, M., Andresen, I., Dokka, TH, and Gustavsen, A (2011): “**Zero Emission Building concepts in office buildings in Norway**”, *International Journal of Sustainable Building Technology and Urban Development, SUSB Vol.2, No.2 (June 30, 2011)*, South Korea, ISSN 2093-7628 (Online), ISSN 2093-761X (Print).
- Haase, M., Buvik, K., Dokka, T. H. and Andresen, I. (2011): “**Design guidelines for energy efficient concepts in office buildings in Norway**”, *Design Principles and Practices: An International Journal*, Volume 5, Issue 4, pp.667-694, CGPublisher, Australia.
- Haase, M., Andresen, I., Time, B. and Hestnes, A.G. (2011): “**The development of future weather data files for Norway**”, *The International Journal of Climate Change: Impacts and Responses*, volume 2, number 3, pp. 1-24, CGPublisher, Australia, ISSN 1835-7156.
- Haase, M., Andresen, I., Time, B., and Hestnes, A.G. (2011): “**Building for climate change – meeting the design challenges of the 21st century**”, *Nordic Journal of Architectural Research*, 22, 1/2, 21-31.
- Andresen I. et al. (2012): “**Design of a Zero Energy Building at Haakonvern, Bergen**”, Proceedings of the PassivhusNorden 2012 conference, 21-23 October, Trondheim, Tapir Academic Publishing.

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Bourelle, J.S., I. Andresen, A. Gustavsen (2013): "**Energy payback: An attributional and environmentally focused approach to energy balance in net zero energy buildings**", *Energy and Buildings*, volume 65.

Fredriksen E, og I. Andresen (2014). "**Mot karbonnøytrale boligområder. Utforming av bygninger og energiforsyning – erfaringer fra pilotprosjekter i Norge**", ZEB Project Report 18-2104, SINTEF Akademisk forlag, ISBN: 978-82-536-1409-0.

Gullbrekken, L., A. Svensson, T. Kleiven og I. Andresen (2015). "**Performance Evaluation of Passive Houses – Field Measurements, Data Analysis, and occupant Interviews in 6 Norwegian dwellings**", Proceedings of the 7th PassivhusNorden Conference, Copenhagen, August 20-21, ISBN: 9788778774231, BYG Rapport R-334.