



Annemie Wyckmans

DATE OF BIRTH:
21 Sep 1973

CONTACT

Nationality: Belgian

Gender: Female



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WORK EXPERIENCE

2012 – CURRENT – Trondheim, Norway

Professor

NTNU Norwegian University of Science and Technology

Head of the cross-cutting NTNU Smart Sustainable Cities initiative (as of August 2021, co-Director of the Gemini Centre on Climate-Neutral and Socially Innovative Cities in cooperation between NTNU and SINTEF). Open urban innovation, co-creation and decision support for people-centric smart sustainable cities, supporting public and private sector as well as civic society with a unique merger of transformative, technological, artistic and practice-based research and innovation inspired by the New European Bauhaus. Projects in Norway – Europe – China – India, see project list.

2013 – 2017 – Trondheim, Norway

Vice Dean of Research

NTNU Norwegian University of Science and Technology, Faculty of Architecture and Design

Responsible for strategic development of research, development and innovation within the Faculty of Architecture and Design.

In Spring 2016, extended to Acting Dean.

2009 – 2012 – Trondheim, Norway

Associate Professor

NTNU Faculty of Architecture and Fine Art

- R&D related to high-quality, energy-efficient buildings and neighbourhoods, Smart Cities (Trondheim – Europe – China)
- Learning in environmental architecture, facilitation of interdisciplinary experts in teamwork
- Creator/Head of MSc in Sustainable Architecture; interaction research, education and industry

2006 – 2008 – Trondheim, Norway

Postdoctoral Researcher

NTNU

- Research on environmental learning in architecture
- Research and education on energy-efficient buildings and built environment
- Development of Brøset zero-emission neighbourhood, in cooperation with Trondheim Municipality
- Teaching Experts in Teamwork courses

2005 – 2006 – Trondheim, Norway

University Lecturer

NTNU

- Participation in Norwegian / EU research projects and education on energy-efficient buildings

2000 – 2005 – Trondheim, Norway

PhD Research Fellow

NTNU

- PhD on Intelligent building envelopes: architectural concept and applications in daylighting quality
- Participation in research projects and education on energy-efficient buildings

1999 – 2000 – Trondheim, Norway

Scientific Assistant

NTNU

- Participation in research projects and education on energy-efficient buildings

EDUCATION AND TRAINING

2014 – 2014 – Alfred Getzvei 3, Trondheim, Norway

Leadership training course

NTNU Norwegian University of Science and Technology

2011 – 2012 – Alfred Getzvei 3, Trondheim, Norway

PED-UP Pedagogical development course for scientific staff

NTNU Norwegian University of Science and Technology

2011 – 2011 – London, United Kingdom

EU Advanced science communication training course

COST European Co-operation in Science and Technology

2021 – 2021

Horizon Europe

EuropaMedia / Research Council Norway

2009 – 2009

FP7 Training Programme

NTNU / Research Council Norway

2005 – 2012 – Alfred Getzvei 3, Trondheim, Norway

Facilitator for Experts in Teamwork

NTNU Norwegian University of Science and Technology

2000 – 2005 – Alfred Getzvei 3, Trondheim, Norway

PhD in Architectural Technology

NTNU Norwegian University of Science and Technology

1993 – 1999 – Belgium

MSc in Architectural Engineering

Catholic University of Leuven

LANGUAGE SKILLS

MOTHER TONGUE(S): Dutch

OTHER LANGUAGE(S): English, Norwegian

ORGANISATIONAL SKILLS

● **Diverse communication, organisational & managerial skills**

- Facilitation of interdisciplinary, cross-sectoral co-operation, communication and conflict management
- Host/moderator, Management, Executive Board and Steering Committee meetings in +CityxChange, URBAN-EU-CHINA, EERA JP Smart Cities, HEU Norwegian Urban Partnership
- EU / China / Norwegian project and programme coordination, cross-sectoral and interdisciplinary
- Host and co-organiser, 5 Foresight Workshops on Sustainable Urbanisation, on average 20-30 European and Chinese participants per event, in Brussels and Beijing
- Organiser/co-organiser of public events and sessions in, amongst others, Nordic Edge Expo in Stavanger and Beijing, Technoport in Trondheim, Smart City Expo Barcelona, Norwegian Prime Minister and Education Ministry to China, 30-250 participants
- Research communication (visual, written, oral) based on experience and course provided by COST
- Oral presentation technique, based on experience and coaching by professional theatre director
- Host and main responsible of KLIMAX breakfast seminars on sustainable architecture in Trondheim, professional stakeholders, 30-120 participants per seminar

HONOURS AND AWARDS

● **Diverse Commissions of Trust & Awards**

- Mission Innovation Champion for Norway 2020
- Member of the Assembly to the Horizon Europe Mission on Climate-Neutral and Smart Cities
- Research & Innovation Chair to the SET-Plan Action 3.2 Stakeholder Group on Smart Cities and Communities (European Member States Initiative)
- Reviewer for TIFER (Spain), SURF (Netherlands), NWO-NSFC (Netherlands-China), FORMAS (Sweden), H2020 (EU); Advisory Board of Halmstad University (Sweden)
- Award for Internationalisation, by NTNU, 2018
- Research Award for Sustainability and Innovation, by the Federation of Norwegian Professional Associations, 2009
- Head of MSc in Sustainable Architecture, a 2-year international interdisciplinary programme, 2009-2013

PROJECTS

● Diverse Project/Programme Management roles

- +CityxChange (H2020) Smart City Lighthouse project, SCC01 (1 Nov 2018 – 31 Oct 2023, Project Coordinator)
- EERA JP Smart Cities Programme Coordinator 2018-2021 (potential for 4-year extension)
- HEU NUP (RCN Research Council Norway) Horizon Europe Norwegian Urban partnership (1 Jan 2020 – 31 Dec 2021, Project Coordinator)
- URBAN-NORWAY-CHINA (RCN) Innovation Platform on Sustainable Urbanisation (2019-2021, Project Coordinator)
- URBAN-EU-CHINA (H2020) Innovation Platform on Sustainable Urbanisation (2017-2019, Project Coordinator)
- TRANS-URBAN-EU-CHINA (H2020) Transition towards urban sustainability through socially integrative cities in the EU and in China (2018-2020, WP5 Lead responsible for Chinese Living Labs)
- SINOPSE (RCN) Sino-Norwegian Partnership on Sustainable Energy (2016-2018, Project Leader)
- PI-SEC (RCN) Planning Instruments in Smart Energy Communities (2016-2019, Project Leader)
- EU-FORA Smart Sustainable Cities (RCN) Funding by Research Council Norway to participate in Urban Europe Research Alliance, European Innovation Partnership on Smart Cities and Communities, European Construction Technology Platform, European Energy Awards (2016-2018, Project Leader)
- FME ZEN (RCN) The Research Centre on Zero Emission Neighbourhoods in Smart Cities (2017-2024, Responsible for internationalisation)
- Work Package lead in finalised COST Actions, IEA Tasks, ZenN and RAMSES projects funded by FP7, IEE, Research Council Norway (RCN)

PUBLICATIONS

Approaches to Social Innovation in Positive Energy Districts (PEDs)—A Comparison of Norwegian Projects

2021

Baer, Daniela; Loewen, Bradley; Cheng, Caroline Y; Thomsen, Judith; Wyckmans, Annemie; Temeljotov Salaj, Alenka; Ahlers, Dirk.

Approaches to Social Innovation in Positive Energy Districts (PEDs)—A Comparison of Norwegian Projects. *Sustainability* 2021 ;Volum 13.(13)

Co-Creating Local Energy Transitions Through Smart Cities: Piloting a Prosumer-Oriented Approach

2020

Gall, Tjark; Carbonari, Giulia; Ahlers, Dirk; Wyckmans, Annemie.

Co-Creating Local Energy Transitions Through Smart Cities: Piloting a Prosumer-Oriented Approach. I: *Review of World Planning Practice Volume 16: Post-Oil Urbanism*. ISOCARP (International Society of City and Regional Planners) 2020 ISBN 978-90-75524-65-9. pp. 112-127

An integrated PXI-Governance approach to participatory monitoring and evaluation in +CityxChange

2020

Gohari, Savis; Lynch, Sheryl; Singh, Mallika; Rood, Daniel; Hynes, William; Karatzoudi, Konstantina; Ahlers, Dirk; Wyckmans, Annemie.

An integrated PXI-Governance approach to participatory monitoring and evaluation in +CityxChange. the 7th biennial International Symposium on Cross-Sector Social Interactions (CSSI 2020); 2020-06-23 - 2020-06-26

100 Social Sciences and Humanities priority research questions for smart consumption in Horizon Europe

2020

Robison, Rosie; Skjølsvold, Tomas Moe; Lehne, Johanna; Judson, Emily; Pechancová, Viera; Foulds, Chris; Bilous, Liliia; Büscher, Christian; Carrus, Giuseppe; Darby, Sara; Demirbağ-Kaplan, Melike; Drevenšek, Mojca; Frantál, Bohumil; Guimarães Pereira, Ângela; Hargreaves, Tom; Karvonen, Andrew; Katzeff, Cecilia; Kola-Bezka, Maria; Laakso, Senja; Lettmayer, Gudrun; March, Hug; Parag, Yael; Renström, Sara; Sáfián, Fanni; Swora, Mariusz; Tjørring, Lise; van der Werff, Ellen; van Vliet, Bas; Wallenborn, Gregoire; Wolsink, Maarten; Wyckmans, Annemie.

100 Social Sciences and Humanities priority research questions for smart consumption in Horizon Europe. Cambridge: Energy-SHIFTS 2020 33 p.

Zero Emission Neighbourhoods in Smart Cities. Definition, Key Performance Indicators and Assessment Criteria: Version 2.0

Wiik, Marianne Rose Kjendseth; Fufa, Selamawit Mamo; Fjellheim, Kristin; Lien, Synne Krokling; Krogstie, John; Ahlers, Dirk; Wyckmans, Annemie; Driscoll, Patrick Arthur; Brattebø, Helge; Gustavsen, Arild.

Zero Emission Neighbourhoods in Smart Cities. Definition, Key Performance Indicators and Assessment Criteria: Version 2.0. SINTEF akademisk forlag 2021 (ISBN 978-82-536-1700-8) 80 p. ZEN Report(32)

Urban Living Labs as Instruments of Open Innovation: Examples of Sino-European Cooperation

2021

Wyckmans, Annemie; Wang, Yu; Korsnes, Marius; Aune, Pål Jarle; Yu, Yang; Liu, Chang; Pasher, Edna; Harir, Mor; Sharir, Lee; Herzog, Otthein; Cao, Buyang; Kontinakis, Nikolaos; Colclough, Anthony.

Urban Living Labs as Instruments of Open Innovation: Examples of Sino-European Cooperation. I: *Towards Socially Integrative Cities: Perspectives on Urban Sustainability in Europe and China*. MDPI 2021 ISBN 978-3-03936-679-8. pp. 223-337

Co-Creation of Positive Energy Blocks

2019

Ahlers, Dirk; Driscoll, Patrick Arthur; Wibe, Håvard; Wyckmans, Annemie.

Co-Creation of Positive Energy Blocks. *IOP Conference Series: Earth and Environmental Science (EES)* 2019 ;Volum 352.(1) pp. 1-7

Strategic Research and Innovation Agenda for EU-China Cooperation on Sustainable Urbanisation v2

2019

Wyckmans, Annemie; Horvat, Manfred; Sievers, Katja; Laschet, Marleen; Wang, Yu; Joli, Siri M L.

STRATEGIC RESEARCH & INNOVATION AGENDA FOR EU-CHINA COOPERATION ON SUSTAINABLE URBANISATION NO.2. Trondheim: URBAN-EU-CHINA Innovation Platform on Sustainable Urbanisation 2019 52 p.

Intermediaries for knowledge transfer in integrated energy planning of urban districts

2019

Lindkvist, Carmel Margaret; Juhasz-Nazy, Eszter; Fladvad Nielsen, Brita; Neumann, Hans-Martin; Lobaccaro, Gabriele; Wyckmans, Annemie (2019) Intermediaries for knowledge transfer in integrated energy planning of urban districts. *Technological forecasting & social change*. Volume 142. Pp.354-363.

Sustainable energy in cities: methodology and results of a summer course providing smart solutions for a new district in Shanghai

2017

Wang, Yu; Lobaccaro, Gabriele; Carlucci, Salvatore; Wang, Ruzhu; Li, Yong; Finocchiario, Luca; Dai, Yanjun; Eikevik, Trygve Magne; Wyckmans, Annemie. Sustainable energy in cities: methodology and results of a summer course providing smart solutions for a new district in Shanghai. *Energy Procedia* 2017; Volume 111. pp. 856-866

Dwelling renovation and spatial quality: The impact of the dwelling renovation on spatial quality determinants

2015

Acre, F.; Wyckmans, A. (2015) Dwelling renovation and spatial quality: The impact of the dwelling renovation on spatial quality determinants. *International Journal of Sustainable Built Environment*; Volume 4.(1) pp. 12-41

A policy and governance context for integrated urban sustainability strategies

2014

Dobson, S.; De Gregorio, S.; Coelho, D.; Wyckmans, A.; Schmeidler, K. (2014) A policy and governance context for integrated urban sustainability strategies. I: *Understanding Cities: Advances in Integrated Assessment of Urban Sustainability*. Newcastle: Centre for Earth Systems Engineering Research (CESER) 2014 ISBN 978-0-9928437-0-0. p. 169-198

Understanding cities: The way forward for Integrated assessment

2014

Dawson, R.; Wyckmans, A.; Feliu, E.; Dobson, S.; Köhler, J.; Heidrich, O. (2014) Understanding cities: The way forward for Integrated assessment. In: *Understanding Cities: Advances in Integrated Assessment of Urban Sustainability*. Newcastle: Centre for Earth Systems Engineering Research (CESER) 2014 ISBN 978-0-9928437-0-0. pp. 201-213

Understanding Cities: Advances in Integrated Assessment of Urban Sustainability

2014

Dawson, R.; Wyckmans, A.; Heidrich, O.; Köhler, J.; Dobson, S.; Feliu, E. (2014) Understanding Cities: Advances in Integrated Assessment of Urban Sustainability. Newcastle: Centre for Earth Systems Engineering Research (CESER) 2014 (ISBN 978-0-9928437-0-0) 214 p.

Considering Resilience: Steps Towards an Assessment Framework

2014

Kallaos, J.; Mainguy, G.; Wyckmans, A. (2014) Considering Resilience: Steps Towards an Assessment Framework. Tema. Journal of Land Use, Mobility and Environment 2014; Volume 7.(1) pp. 5-28

Utopia Revisited. Towards a Carbon-Neutral Neighborhood at Brøset

2014

Støa, E; Larssæther, S; Wyckmans, A. (2014) Utopia Revisited. Towards a Carbon-Neutral Neighborhood at Brøset. Fagbokforlaget 2014 (ISBN 978-82-450-1725-0) 355 p.

SET-plan Education and Training Initiative. Assessment report for “Smart Cities” (Energy-efficient buildings, thermal energy networks and Smart Cities integration aspects).

2013

Bach, B.; Schütz, R.; Wyckmans, A.; Madsen, H.; Franz, P.; Ramón, M.P.G. (2013). SET-plan Education and Training Initiative. Assessment report for “Smart Cities” (Energy-efficient buildings, thermal energy networks and Smart Cities integration aspects). Report prepared for the European Commission.

Integrated Energy Design - Education and Training in Cross-disciplinary Teams Implementing Energy Performance of Buildings Directive (EPBD)

2013

Brunsgaard, C.; Dvorakova, P.; Wyckmans, A.; Stutterecker, W.; Laskari, M.; Almeida, M.; Kabele, K.; Magyar, Z.; Bartkiewicz, P.; Op 't Veld, P. (2013) Integrated Energy Design - Education and Training in Cross-disciplinary Teams Implementing Energy Performance of Buildings Directive (EPBD). Building and Environment (ISSN 0360-1323). Vol.72, pp. 1-14