

CURRICULUM VITAE ROB ROGGEMA

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Born: 20 October 1964, Leek, The Netherlands

SUMMARY/SHORT BIO

Prof. dr. ir. Rob Roggema (1964), Landscape Architect, is an international renowned design-expert on sustainable urbanism, climate adaptation, renewable energy landscapes and the design of urban agriculture. He held positions at several universities in the Netherlands and Australia, State and Municipal governments and design consultancies. As of 1 December 2016 he is appointed as Professor of Sustainable Urban Environments at University of Technology Sydney (UTS), faculty of Design, Architecture and Building in Sydney, Australia. In 2010 he became the inaugural visiting fellow at the Victorian Centre for Climate Change Adaptation Research and in 2014 he was the Chair of the 6th International AESOP Conference on Sustainable Food Planning in Leeuwarden. His PhD-thesis has been selected for publication in Springer's 'Recognising Outstanding Research'-series (2013).

He developed the Swarm Planning concept, dealing with uncertainties in current planning, for which he received the scientific award for best paper at the Sustainable Building conference in Melbourne, 2008. In 2009, he was awarded with an honorary mention for his entry in the Rising Tides Competition, San Francisco Bay Area. After finishing his PhD he was rewarded a 'Rubicon'-grant by the Dutch Scientific Organisation (NWO).

Amongst the design-concepts he developed are the following examples:

- Double Defence, proposing a second row of barrier island to protect the coast for storm surges in times of climate change;
- Floodable Eemsdelta, anticipating sea level rise and potential disastrous flooding through allowing the landscape to flood;
- Bushfire Resilient Bendigo, anticipating bushfires by creating a protective shield and slowly moving away the town;
- Zero Fossil Groningen, designing a landscape that provides enough energy from renewable resources;
- FoodRoofRio, creating a rooftop garden with an aquaponic system, providing food for the whole family in Cantagalo favela in Rio de Janeiro;

- FishwaterbasedNL, proposing a design for the Netherlands based on a diet consisting of fish, vegetables and fruit;
- Shock Support, a plan for anticipating minor earthquake by making the houses independent from the shock transforming them into floatable houses in Groningen, the Netherlands.

He has written three books on climate adaptation and spatial planning (Climate Adaptation: A Spatial Challenge; Swarming Landscapes: The Art of Designing for Climate Adaptation and Swarm Planning: Development of a New Methodology Dealing with Climate Adaptation, all published by Springer), one about design charrettes (The Design Charrette: Ways to Envision Sustainable Futures, Springer) and three on Urban Agriculture (Why We Need Small Cows, Ways to Design Urban Agriculture, VHL Press, 2014; Sustainable Urban Agriculture and Food Planning, Routledge, 2016 and Urban Agriculture in an Urbanizing Society, Vol. One, Cambridge Scholars Publishing, 2016). He has written over 15 journal articles and numerous conference papers and other articles.

He is the inventor of the FoodRoofRio concept, an aquaponic food system to help favela residents to grow their own food, of which the inaugural one has been realised in September 2014 in Cantagalo, Rio de Janeiro.

He has designed and led over 30 design charrettes in the Netherlands, Japan, Mongolia, China, Jordan, India, Australia and New Zealand, involving communities, academics, governments and industries in the design process. He has been asked to present his work in over 30 keynote presentations, nationally and internationally, and countless other presentations and lectures.

EXAMPLES OF PROJECTS

1. Synergy between Regional Planning and Exergy, EOS-LT program, Senter Novem. 1.5 million Euro. Lead author of proposal. (2006-2011). This research program focuses on the relation between spatial planning and the use of energy potentials and exergy principles as drivers for regional development. Five PhD's finalise their theses within this program. Current program management: TU Delft;
2. Hotspot Climate Proof Groningen, CCSP-program, 400K Euro. Lead author of proposal, chief investigator and project manager (2008-2009). This project focuses on the development of regional climate adaptation plans, developing of a spatial planning method for climate adaptation and innovative process approaches in involving stakeholders. Project is finalised;
3. Biochar, Interreg IV-B, 5 million Euro. Co-author of proposal and program manager (2009-2013). This European collaboration project focuses on the implementation of the use of Biochar in agricultural practice in different contexts, tests the results in practice and examines the barriers for implementation amongst end-users;
4. Climate Proof Design Eemsdelta, Knowledge for Climate program, Habiforum. 500K Euro. Lead author of proposal, chief investigator and program manager (2009-2011).

This project focuses on the development of research for climate adaptation in the Eemsdelta region, being storm surge and coastal defence, ecological quality and development, use of local renewable energy potentials and new attractive and affordable housing;

5. Hotspot Peat Colonies, a region, which capture more GHG than it emits. CCSP-program. 500K Euro. Lead author of proposal, chief investigator and project manager (2010-2012). This project researches the combination of planning for Adaptation and Mitigation, researches and calculates the opportunities to capture more CO₂ than is emitted in the region and defines the basis for regular spatial plans of individual municipalities.
6. Design-led decision support for regional climate adaptation. VCCCAR research project. 500K AUD. Lead author of the proposal chief investigator and project manager (2011-2012). The project aims to develop in an innovative way climate adaptation plans for three pilot regions in Victoria, involving local stakeholders in the process and assessing the results of the design outcomes economically and environmentally.
7. Design-led institutional transformation for resilience to climate extremes (Natural Disaster Resilience (NDR)-grant). 250K AUD, 2012-2013. Co-author of proposal and shared chief investigator. Innovative design-led participatory visioning process is used to identify strategies and institutional changes necessary for adaptation to extreme weather events.
8. Rubicon-grant (NWO). 130K Euro. Lead author and Chief Investigator. "Modeling the benefits of Swarm Planning, a dynamic way of planning for future adaptation to climate change impacts", December 2012-November 2014. Further theoretical research to underpin the advantages of the Swarm Planning approach.
9. Visions 2050 (CRC-Low Carbon Living). 3 million AUD. Co-author of proposal and shared chief investigator. Visions and Pathways 2050. Scenarios, Visions and Pathways for a Low Carbon Built Environment. 2013-2016. Envisioning future low-carbon living and the required transformation towards that future.
10. Reborn Resilience, Design workshops Minamisoma and Kesenuma, Japan (AJF), 15.000 AUD, Funded by Australia-Japan Fund. Lead Author and Project/Delegate leader. 2013-2014. Reborn Resilience, anticipating climate disasters in urban environments, designing reconstruction plan for tsunami-hit towns of Minamisoma and Kesenuma.
11. CALL-ISS, Climate Adaptation in Living Labs – Integrated Spatial Strategies. Interreg IVa. 50K Euro. 2014-2015. Lead author and Chief Investigator. Collaboration between University of Oldenburg, Cittaideale, TCNN, ArsuGMBH, seven Municipalities in Groningen the Netherlands and five Kreise/Gemeinde in NordWest Germany.

AWARDS

- Best theoretical paper, World Sustainable Building Conference, Melbourne, September 2008
- Honorary Mention, Rising Tides Design Competition, San Francisco Bay Area, BCDC, July 2009
- Recipient Rubicon grant, NWO, The Netherlands, 2012
- PhD thesis selected for the Springer Theses series, Recognizing Outstanding PhD-Research, 2013
- AiCARE Revolutionary Solution – Social Innovation for Agriculture of the future Award (nominated)

CHAIR

- Chair of the International AESOP conference Sustainable Food Planning 'Finding Spaces for Productive Cities', Leeuwarden, 5-7 November 2014

COMMITTEES

- Member of the Board of DSL, Dutch Schools of Landscape Architecture (April 2014 - October 2015)
- Member of the International Scientific Committee of the Sustainable Building Conference 2013 (SB13), 15-16 October 2013, Cape Town, South Africa
- Member of the Organising Committee of the International Conference on Climate Change and the Himalayas: Current Status and Future Perspective (ICCCH). 3-5 December 2012, New Delhi, India
- Member of the Program Board of the Climate Change Spatial Planning-program, The Netherlands, 2008-2010

EDUCATION

2008 – 2012

PhD - Delft University of Technology, Faculty of Architecture, Climate Design & Sustainability and Wageningen University and Research Centre, Earth Systems Science

- Swarm Planning: Development of a Planning Methodology to deal with Climate Adaptation

1984-1990

Master - Landscape architecture, Urban, Wageningen University and Research Centre

- Nijmegen na 1990, regionaal ontwerp uitbreidingsmogelijkheden Nijmegen en omgeving
- Ruimte en Vorm, theoretisch onderzoek stedelijke ruimte
- Urban design (TU Delft)

MONITOR

- External/International reviewer Master program Architecture and Master program Landscape Architecture Unitec University of Technology, Auckland, New Zealand, October 2013
- External/International reviewer phase 2, Master program Architecture and Master program Landscape Architecture Unitec University of Technology, Auckland, New Zealand, December 2014/January 2015

REVIEWER

- Journals:
 - European Planning Studies
 - Environment and Planning B
 - Climate
 - Journal of Sustainable Development
 - Future of Food Journal (member of Editorial Board)
 - Sustainability
 - Journal for Environmental Sciences
 - Journal of Environmental Protection
- Water and the Environment – The City as a Catchment. Foundation Paper, number Three. Commissioner for Environmental Sustainability Victoria. Review date: October 2012
- Resiliency strategies for aspirational African cities. Proposal to NRF & DST: global change, society and sustainability. University of Pretoria, School of the Built Environment. Review date: July 2011

EXPERIENCE

December 2016 –

Professor of Sustainable Urban Environments, Faculty of Design, Architecture and Building, University of Technology Sydney

April 2009 – December 2016

Owner/Director CITTA IDEALE, Office for Adaptive Planning

Design and Research Office for Adaptive Planning in Urban Landscapes

- Advise the Dutch National Government, Council for the living environment and infrastructure (RLI) about the future of the Dutch Landscape 2070
- Design and development Smaakpark Ede (Park of Taste)
- Advisor Development of Social Impact Bond, Wageningen
- Masterplan Pilot Productive Landscape Maasmechelen, Vlaams Bouwmeester

- Reviewer Design Studio EVO DEVO, Master Architecture, open studio, Cornell University, Ithaca, US
- ToR Masterplan Redevelopment precinct Amman, Jordan
- Masterplan for Abidan, Iran

July 2015 -

Expert in RESURBE network

Working group Participatory Processes and Co-design. Expert in the RESURBE program: <http://www.unescosost.org/en/project/resurbe/>, concerned with increasing the resilience of cities around the world

May 2015 -

Lead expert for URBACT-III projects

Support consortia in developing and conducting their collaborative projects in improving cities to develop pragmatic solutions that are new and sustainable and that integrate economic, social and environmental urban topics.

September 2013 – October 2015

Professor of Design for Urban Agriculture, Van Hall Larenstein University, Department of Landscape Architecture

- Development, Design and Realisation FoodRoof Rio de Janeiro
- Chair of the 6th International Conference on Sustainable Food Planning, Leeuwarden
- Set up of research agenda and program
- Workshop in Binder Soum, developing strategic tourism plan in participatory process

September 2013 – December 2017

Adjunct Professor Swinburne University of Technology, Centre for Design Innovation

- Rubicon research: Modeling the benefits of Swarm Planning, a dynamic way of planning for future adaptation to climate change impacts
- Design Charrette in Minamisoma region, Japan for development of reconstruction landscape plan in participatory design process
- Design Charrette in Kesenuma, Japan for development of reconstruction coastal zone plan in participatory design process

November 2012 – August 2013

Senior Research Fellow, The Swinburne Institute for Social Research, Swinburne University of Technology

- Rubicon research: Modeling the benefits of Swarm Planning, a dynamic way of planning for future adaptation to climate change impacts

- Scoping study sustainability assessment tools at precinct level, CRC Low Carbon Living
- Visions 2050, developing visions for low carbon living in four cities in Australia, CRC Low Carbon Living
- External Reviewer, Studio Mess 3: >fit< for Resilience, Creswick 2042, faculty of Architecture Building and Planning, School of Design, University of Melbourne, November 2012

May 2011 – October 2012

Senior Research Fellow, Centre for Design, RMIT University, Melbourne

- Lead investigator and project manager “Design-led decision support for regional climate adaptation” (VCCCAR-research grant)
- Leader of the Design Studio ‘KINDLE’ - design of bushfire resilient landscapes. Second semester 2011. Lower pool Landscape Architecture, School of Architecture and Design, RMIT (Evaluation Score: 88,6%; Satisfaction score 100%)
- Leader of the Design Studio ‘SWELL’ – Designing surge resilient landscapes. Second semester 2012. Lower pool Landscape Architecture, School of Architecture and Design, RMIT
- External Reviewer Design Studio Landscape design, Faculty of Architecture, University of Melbourne, May 2011

September 2010 – April 2011

Honorary Visiting Research Fellow, VCCCAR, Melbourne

- Climate adaptation and spatial planning, comparative review of practice in Victoria and the Netherlands
- Knowledge exchange between Victorian and Dutch Institutions (State Government, Local Councils and Universities)
- External Critic, Design Studio Landscape Architecture “FLOAT. Designing with the dynamics of extreme water events”; RMIT University, April 2011
- Dissemination of knowledge and experience through seminars and presentations
- Provide several VCCCAR affiliated scientific papers and book chapters

March 2003 – January 2011

Manager Strategy and Regional Planning, Program Manager Climate Adaptation and Regional Planning

Province of Groningen, Unit Environmental and Spatial policy

- Project manager, prime fund generator and chief investigator, Hotspot climate & energy proof regional design for the province of Groningen, in the Climate Changes Spatial Planning program, Consortium of Dutch Universities (Wageningen and Amsterdam) and National Government; € 400K

- Project manager, prime fund generator and chief investigator, 'Peat Colonies, the region that captures CO₂ instead of emitting it', Hotspot project in the Climate Changes Spatial Planning program, Consortium of Dutch Universities (Wageningen and Amsterdam) and National Government € 500K
- Project manager and prime fund generator 'Climate proof Eemdelta', ARK impulse project Ministry of Spatial Affairs and Knowledge for Climate Research Program, Consortium of Dutch Universities (Utrecht and Wageningen) and National Government. € 500K
- Co-leader, BIOCHAR, Interreg IV-B project, EU-funded research project on the implementation of Biochar in agricultural practice, collaboration between seven North Sea countries. € 5 million
- Prime fund generator and lead author, research proposal S-REX (Senter Novem, EOS long term program), Exergy and Regional Spatial Planning, € 1.5 million. Groningen, Delft, Wageningen, the Netherlands
- Member of the Program Board of the Climate Change Spatial Planning-program, The Netherlands
- Member of the core-team of the interprovincial organisation on adaptation climate change and spatial affairs, Utrecht, The Netherlands
- Advisor & Investigator, Hotspot Wadden Sea, Knowledge for Climate Research Program (KvK), Consortium of Dutch Universities (Utrecht and Wageningen) and National Government, the Netherlands Government
- Chair Spatial Design Team, Grounds for Change; Dutch entry in Global Competition on 'Bridging Regional Spatial Design Strategies With Sustainable Energy Planning', International Gas Union (IGU), Three Northern Provinces and Gasunie, The Netherlands. International collaboration in Bridging to the Future-project with Vancouver, Canada; Shanghai, China; Doha India
- Project Leader, Provincial Regional Plan I and II (Integrating Spatial Structure Plan, Water Management Plan, Traffic and Transport Plan and Environmental Plan), Chair, project team Provincial Regional Plan, until September 2005) and Co-manager, Regional Plan III (Structure Vision), Province of Groningen, The Netherlands
- Program manager and delegation leader INCREASE I and II (International Conference on Renewable Energy Approaches and the Spatial Environment). International conference series on sustainable energy and spatial planning. Participants: Canada, Jordan, Russia, Germany, China and The Netherlands. Amman, Jordan and Beijing/Shanghai, China
- Project manager, Rising energy prices and the effects on behavioural estate values and population migration (cooperation with MGIMO, University of Moscow), Groningen/Moscow, The Netherlands/Russia
- Member CPSL-3, Trilateral working group on Coastal Protection and Sea Level Rise, Wadden sea secretary, Bremerhafen, Germany

- Advisor, National Committee for landscape research on large wind turbines (Ministry of Spatial Affairs, Housing and the Environment (VROM), The Hague, The Netherlands)
- Strategy-development, Province of Groningen, The Netherlands
- Advisor, East Side Central Square, Groningen, The Netherlands

January 2000- February 2003

Project manager Municipality of Almere

Department of Urban development, office of project management, project manager Almere Poort

- Chairman planning team Almere Poort
- Integrated advisory Municipality Council
- Manager cluster Poort (9 people)
- Chairman diverse integral project teams (working locations, central area, station)
- Principal development plans and designs, including financial matters
- Principal departments and offices within the municipality and external advisors
- Control of planning and budget
- Steering internal and external communication

From January 2002, Cabinet, office of Authority advise and policy co-ordination

- Project leader Investment vision, -program and -strategy Almere concerning further growth and authority consensus between national, regional and local authorities
- Project leader City vision Almere, integrated vision of the Municipality Council concerning the future of Almere

June 1996 – December 1999

BRO, Consultancy for spatial affairs, project leader Sustainable Urban Development and manager Cluster Sustainable Design

- Member design team and project teams Houten Vinex (Municipality of Houten)
- Location alternatives Stadsblokken-Meinerswijk Arnhem (Central Planning Agency, ministry VROM)
- Structure-plan Hilversum-Oost (Municipality of Hilversum)
- Design working area De Trompet (Municipality of Heemskerk)
- Urban design Oortjensveld III (Municipality of Roerdalen)
- Structure-plan Océ-area (Municipality of Venlo)
- Urban design Berkelse Poort (Municipality of Berkel en Rodenrijs)
- Corridor-study Tilburg Gilze-Rijen logistic-industrial working area (Joint Venture Central Brabant)
- Vision sustainable development EPZ-area (energy plant, municipality of Haelen)

- Authority Bandwidth and member design team Blokhoeve (Municipality of Nieuwegein)
- Water management and design the Vliert (Municipality of Den Bosch)
- Conference Sustainable urban planning, Big cities in Brabant and the province of Northern Brabant)
- Three Sustainable city-concepts: Multiple Layer City, Light City and Empty City
- Environmental Impulse Drechtsteden (Office of environmental affairs Southern part of the province of South-Holland)
- Design of the Empty-city concept, Hoge Vucht, Breda (Bredrecht, Alterra)
- National package Sustainable building (municipalities of Houten and IJsselstein)

May 1995 - June 1996

Municipality of Rotterdam, Engineering office for the environment, environmental advisor and project leader

- Project leader Costs and benefits of sustainable extension plans (Association of Dutch Municipalities, VNG)
- Environmental input planning process Nesselande, Municipality of Rotterdam
- Environmental design in IJburg-plan, Municipality of Amsterdam

December 1991 – April 1995

Municipality of Breda, Department of environmental affairs, spatial planner and advisor integrated environmental policy

- Project leader Sustainable City development
- External integration environmental policy in spatial planning (Westerpark, Chasséterrein, Breda-NO, Heilaar-Steenakker)
- Co-operative design Westerpark
- Projectleader Regional Ecological Model
- Member DOSS-advisory group (ministry VROM), working group Eco-region, working group Urban environments

September 1990 – November 1991

Province of Noord-Brabant, office design and management urban areas, alternative military duty

- Development regional images Urban regions
- Analysis and functional images of central nodes in Urban regions

June - August 1990

Province of Noord-Brabant, office design and management urban areas, traineeship

- Inventory Urban Regions

April - June 1989

Metropolis, Consultancy in Urban Planning, Rotterdam, traineeship

July - August 1988

Bureau Bügel Dubbeling and partners, Urban planning consultancy, Groningen

EXAMPLES OF PUBLICATIONS

EDITORSHIPS

- Roggema, R.** (Guest Ed.) (2016) Design (Be)for(e) Disaster. Special Issue. *Sustainability*
- Roggema, R.** and R. Ruthberg (Eds.) (forthcoming) *The Foodroofs of Rio de Janeiro- The Pavao-Pavaozinho and Cantagalo Case Study*. Dordrecht, Heidelberg, London: Springer (forthcoming)
- Roggema, R.** and Wanglin Yan (Eds.) (forthcoming) *Minamisoma: the leading example of planning to recover from catastrophe. Rethink, reborn, return*. Dordrecht, Heidelberg, London: Springer
- Roggema, R.** (Ed.) (2016) *Sustainable Food Planning*. Volume Two. Cambridge Scholars Publishing. (forthcoming)
- Roggema, R.** (Ed.) (2016) *Sustainable Food Planning*. Volume One. Cambridge Scholars Publishing. (in print)
- Roggema, R.** (Ed.) (2016) *Sustainable Urban Agriculture and Food Planning*. Routledge (in print)
- Roggema, R.** (Guest Ed.) (2015) Special Issue. *Future of Food Journal* **2** (1) May 2015
- Roggema, R.** and G. Keeffe (Eds.) (2014) Finding spaces for productive cities. *Proceedings 6th AESOP Sustainable Food planning Conference*. Velp: VHL Publishing
- Roggema, R.** and G. Keeffe (Eds.) (2014) *Why We Need Small Cows: Ways to design for Urban Agriculture*. Velp: VHL Publishing, 330 pp.
- Sundaresan, J., S.K. Mattancherry, A. Deri, **R. Roggema** and R. Singh (Eds.) (2014) *Geospatial Technologies and Climate Change*. Cham: Springer, 299 pp.
- Roggema, R.** (Ed.) (2013) *The Design Charrette: Ways to Envision Sustainable Futures*. Dordrecht, Heidelberg, London: Springer, 335 pp.
- Roggema, R.** (Ed.) (2012) *Swarming Landscapes: The Art of Designing for Climate Adaptation*. Dordrecht, Heidelberg, London: Springer, 260 pp.
- Roggema, R.** (Ed.) (2009) *Adaptation to Climate Change: A Spatial Challenge*. Dordrecht, Heidelberg, London: Springer, 360 pp.
- Roggema, R.** (Ed.) (2009) INCREASE II (International Conference on Renewable Energy Approaches for the Spatial Environment); Proceedings Increase II. Groningen: Province of Groningen and Beijing: UIBE, 208 pp.
- Roggema, R.** (Ed.) (2008) Tegenhouden of meebewegen, Adaptatie aan klimaatverandering en de ruimte, Amsterdam: Weka-uitgeverij, 236 pp.
- Roggema, R.E.**, I. Absil-van de Kieft, H. Hofstra, C.W. Jansen, M.O. Janssen, W. Timmermans en E. Vuyk (Eds.) (2002) *Handboek Ruimtelijke Ordening en Milieu, editie 2002/2003*. Alphen aan den Rijn: Kluwer

- Roggema, R.E.**, A.J.M. Schreuders, M.O. Janssen, H. Hofstra, E. Vuijk, C.W. Jansen en W. Timmermans (Eds.) (2002) *Handboek Ruimtelijke Ordening en Milieu, editie 2001/2002*. Alphen aan den Rijn: Kluwer
- Roggema, R.E.**, A.J.M. Schreuders, S.R.J. Jansen, M.O. Janssen, H. Hofstra en E. Vuyk (Eds.) (2001) *Handboek Ruimtelijke Ordening en Milieu, editie 2001*. Alphen aan den Rijn: Samsom
- Zinger, H.A.P., A.M. Cox, M.J.F. van Gerwen, E. Hoeflaak, S.R.J. Jansen en **R.E. Roggema** (Eds.) (2000) *Handboek Ruimtelijke Ordening en Milieu, editie 2000*. Alphen aan den Rijn: Samsom
- Van Hal, A., R. Rovers, **Roggema, R.** et al. (1997-2000) Editor Duurzaam Bouwen. Boxtel: Aeneas
- Roggema, R.** (Ed.) (1999) *Interviews Duurzame bedrijventerreinen in de provincie Noord-Holland*. Haarlem: province of Noord-Holland
- Roggema, R.** (Ed.) (1998) *Special Sustainable Urban Planning*. Den Haag: Rathenau Institute
- Bijma, A., D. Hoeks, E. van der Hoeven, G. de Jong, W. Joosse, H. Lokerse, M. Rensen, **R. Roggema** (1997) 100 jaar Baronielaan, Boulevard Breda Mastbosch. Breda: Sectie D, Zandbergse boekstichting
- Bijma, A., D. Hoeks, E. van der Hoeven, G. de Jong, W. Joosse, P. van Keyzerswaard, H. Lokerse, M. Rensen, **R. Roggema** (1995) 100 jaar Wilhelminapark, Boulevard Breda Mastbosch. Breda: Sectie D, Zandbergse boekstichting
- Roggema, R.**, M. van Ginkel, M. Okhuysen, N. Offenbergh (Eds.) (1994) *Jaarboek Duurzame Stadsontwikkeling Breda*. Breda: gemeente Breda

JOURNAL ARTICLES (REFEREED)

- Roggema, R.** (forthcoming) The Future of Sustainable Urbanism: A Redefinition. *Journal of Environmental Protection* (under review)
- Roggema, R.** (2016) Research by Design: Proposition for a methodological approach. *Urban Science* 1(1) 2-20; <http://dx.doi.org/10.3390/urbansci1010002>
- Yan, W., **R. Roggema** and L. Middleton (forthcoming) Practice on Co-creative Reconstruction in Northeast Japan for Building Resilience. *Keio SFC Journal*
- Yan, W., **R. Roggema**, L. Middleton and A. Oba (forthcoming) Charrette Workshop for Landscape Design in Post-Nuclear Disaster Reconstruction: Case Study in Minamisoma City, Fukushima. *Landscape and Urban Planning* (under review)
- Roggema, R.** (forthcoming) Thank God, The City is Complex. *Landscape and Urban Planning*. Special Issue HafenCity University (invited)
- Roggema, R.** (2016) Transformative Governance as Trigger to Identify Space for Urban Agriculture: An Appeal for New City Concepts. *Nordic Journal of Architectural Research* (in print)

- Roggema, R.** (2015) Three Urbanisms in One City: Accommodating the Paces of Change. *Journal of Environmental Protection*, Special Issue Urban Planning, October 2015 **6** 946-956. <http://dx.doi.org/10.4236/jep.2015.69084>
- Roggema, R.** (2015) Let the Images Imagine! Potential Roles for the Arts in the Approach to Climate Change. *Double Dialogues* **17** Winter 2015. Published online: <http://www.doubledialogues.com/article/let-the-images-imagine-potential-roles-for-the-arts-in-the-approach-to-climate-change/>
- Roggema, R.** (2015) The reinvention of the academic conference: how active delegates develop productive city concepts. *Future of Food: Journal on Food, Agriculture and Society* **3** (1) 63-78
- Roggema, R.** (2015) Planning for Sustainable Food Production: A New Challenge for City Developers. Editorial. *Future of Food: Journal on Food, Agriculture and Society* **3** (1) 5-8
- Roggema, R.,** L. Vos and J. Martin (2014) Resourcing Local Communities for Climate Adaptive Designs in Victoria, Australia. *Chinese Journal of Population Resources and Management* **12** (3) 210-226. <http://dx.doi.org/10.1080/10042857.2014.934951>
- Roggema, R.** (2014) Towards Enhanced Resilience in City Design: A Proposition. *Land* **3** 460-481 <http://dx.doi.org/10.3390/land3020460>
- Roggema R.** (2013) Dutch and Australian Planning Regimes: Are They Ready to Face Extreme Climate Impacts? *European Planning Studies* (published online: 9 July 2013; <http://dx.doi.org/10.1080/09654313.2013.817541>)
- Roggema, R,** T. Vermeend and A. van den Dobbelsteen (2012) Incremental change, transition or transformation? Optimising change pathways for climate adaptation in spatial planning. *Sustainability* **4** 2525-2549
- Roggema, R.** and A. van den Dobbelsteen (2012) Swarm Planning for Climate Change: an alternative pathway for resilience. *Journal for Building Research and Information* **40** (5) 606-624
- Roggema, R.,** P. Kabat and A. van den Dobbelsteen (2012) Climate adaptation and spatial planning: towards a new planning framework. *SASBE* **1** (1) 29-58
- Roggema, R** (2010) Landscape architecture and climate adaptation: new chances for spatial identity. *Landscape Architecture China*, **11**, pp. 24-31
- P. Kabat, C. M. J. Jabobs, R. W. A. Hutjes, W. Hazeleger, M. Engelmoer, J. P. M. Witte, **R. Roggema**, E. J. Lammerts, J. Bessembinder, P. Hoekstra, M. van den Berg (2009) Klimaatverandering en Wet waddengebied (position paper Klimaat en Water). *European Sociological Review* 01/2009

AUTHORED BOOKS AND MONOGRAPHS

- Roggema, R.** and R. Ruthberg (Eds.) (forthcoming) *The Foodroofs of Rio de Janeiro- The Pavao-Pavaozinho and Cantagalo Case Study*. Dordrecht, Heidelberg, London: Springer

- Roggema, R.** and Wanglin Yan (Eds.) (forthcoming) *Minamisoma: the leading example of planning to recover from catastrophe. Rethink, reborn, return.* Dordrecht, Heidelberg, London: Springer
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- Roggema, R.** (2013) *The Design Charrette: Ways to Envision Sustainable Futures.* Dordrecht, Heidelberg, London: Springer, 335 pp.
- Roggema, R.** (2013) *Swarm Planning: The development of a Methodology to Deal with Climate Adaptation.* Springer Theses, Recognizing Outstanding PhD-Research. Dordrecht, Heidelberg, London: Springer, 286 pp.
- Roggema, R.** (2012) *Swarming Landscapes: The Art of Designing for Climate Adaptation.* Dordrecht, Heidelberg, London: Springer, 266 pp.
- Roggema, R.** (2012) *Swarm Planning: The development of a Methodology to Deal with Climate Adaptation.* Delft, Wageningen: Delft University of Technology and Wageningen University and Research Centre. PhD-thesis
- Roggema, R.** (2009) *Adaptation to Climate Change: A Spatial Challenge.* Dordrecht, Heidelberg, London: Springer, 360 pp.
- Roggema, R.** (2009) *DESIGN, Final Report Hotspot Climate Proof Groningen;* Groningen/Wageningen/Amsterdam: Province of Groningen and Climate Changes Spatial Planning, 159 pp.
- Roggema, R.** (2009) *INCREASE II* (International Conference on Renewable Energy Approaches for the Spatial Environment); Proceedings Increase II. Groningen: Province of Groningen and Beijing: UIBE, 208 pp.
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EXAMPLES of KEYNOTES, LECTURES and PRESENTATIONS

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Climate adaptation, energy potentials and spatial planning, presentation informal working visit
Crown Prince of Orange, **Groningen**, 1 April 2008

Climate Valley, Keuning conference on Energy Landscapes, Groningen, the Netherlands,
June 2007 *The space to change*, Sustainability lecture, province of **Groningen**, the
Netherlands, January 2007

The unbearable brightness of planning, World Environmental Day, **San Francisco**, June
2005

The Sustainable City, Subscription Covenant on sustainable building, **Heino**, December 1998

Costs and benefits of a disconnected sewage system, Conference Disconnection, Rioned,
Zeist, the Netherlands, June 1997

A circular trip through the HAL-area, Conference Sustainable Urban development in the HAL-
area, **Heerhugowaard**, the Netherlands, June 1995

ORAL CONFERENCE PRESENTATIONS

Enhancing direct access to food for favela residents: how the *FoodRoof* supports them to
grow their own healthy food. *2nd international conference on Agriculture in an
Urbanizing Society*. **Rome**, 16 September 2015

Towards fundamental new urban planning for productive cities: the quest for space. *2nd
international conference on Agriculture in an Urbanizing Society*. **Rome**, 15 September
2015

About Content and Process: A Proposition City-Region Planning. *2nd international
conference on Agriculture in an Urbanizing Society*. **Rome**, 14 September 2015

Smart by Nature: The Use of Swarm Planning in Creating Productive and Adaptive Urban
Landscapes. *8th Conference of the International Forum on Urbanism 'True smart and
green city?'* **Incheon**, 23 June 2015

Thank God, the City is Complex. *Urban Regions under Change. Towards Social Ecological
Resilience*. Hafen University, **Hamburg**, 27 May 2014

Let the Images Imagine – Enhancing the Climate Community Connection. *Climate Change:
Science and Art and Policy Symposium*. **Geelong**: 1 March 2013

City in Advance: Climate as Trigger for Adaptive Planning. *International Conference for Urban
Planning and Environment*. **Sydney**, 25 July 2012

Development of a Planning Theory for Wicked Problems, *SASBE 2012*, **Sao Paulo**, 29 June
2012

Swarm Planning: A Unified Approach Dealing with the Two Sides of Climate Change. World
Sustainable Building Conference (SB11), **Helsinki**, 18 October 2011

Swarming landscapes: new pathways for resilient cities. 4th International Urban Design
Conference: Resilience in Urban Design. **Surfers Paradise**, 23 September 2011

Planning for Climate Change or: How Wicked Problems Shape the New Paradigm of Swarm
Planning. World Planning Schools Conference, **Perth**, 4 July 2011

To B or not to B, Transformation of Spatial Systems. Resilience 2011 Conference, **Tempe**, 12 March 2011

The Swarm and the Plan, Spatial Resilience for Climate Change. Resilience 2011 Conference, **Tempe**, 12 March 2011

Anticipating climate change in rural regions: some Dutch experiences, Sustainability of Australia's Country Towns Conference, LA Trobe University, **Bendigo**, 1 October 2010

Anticipative planning: The Groningen experience and the swarm planning concept, International Climate Change Adaptation Conference NCCARF, **Gold Coast**, 1 July 2010

Adaptation to climate change, does spatial planning help? Swarm planning does! Ravage of the planet, international conference, **Cape Town**, SA, 15 December 2009

Adaptatie aan klimaatverandering, is dat te plannen? Op weg naar een nieuw planningsparadigma: Swarm Planning. Ruimte conferentie, **Rotterdam**, 3 November 2009

Quadruple the potential; PLEA 09; International conference; **Quebec**, Canada, 22 June 2009

Climate adaptation and regional planning in Groningen province; SASBE 09, international conference, **Delft**, June 2009

Hotspot klimaatbestendig Groningen, lecture at the KvR-KvK conference, **Rotterdam**, 27 November 2008

Swarm planning: development of a new planning paradigm, which improves the capacity of regional spatial systems to adapt to climate change, World Sustainable Building Conference (SB08), **Melbourne**, Australia, 22 September 2008

The use of spatial planning to increase the resilience for future turbulence in the spatial system of the Groningen region to deal with climate change, UKSS-Conference, **Oxford**, 2 September 2008

Towards a comprehensive regional planning strategy based on adaptation, international ESPACE- conference, VROM, **Den Haag**, May 2008

Climate proof regional design in the province of Groningen, Conference Climate Changes Spatial Planning, **Den Haag**, October 2007

Regional energy-design for Energy Valley challenges, Energy Convention, **Groningen**, October 2005

The Sustainable City of the future, Conference Union of Environmentalists, **Noordwijk**, September 1998

Sustainable growth of cities, high density and urban lightness, INTA-Conference, **Taipei**, May 1998

Focus groups reached? An urban development plan, Conference Working with the local agenda 21, **Amersfoort**, March 1995

Influence of environmental planning on spatial planning in Breda, Conference Ecological strategies for cities, **Dordrecht**, October 1993

Sustainable Building in Heilaar Steenakker, Breda. Conference Sustainable Building, **Utrecht**, September 1993, foundation of ecology and environment

ACADEMIC GUEST LECTURES

Designing the challenge of climate change: Guest Lecture, Studio Mess 3: >fit< for Resilience, Creswick 2042, faculty of Architecture Building and Planning, School of Design, **University of Melbourne**, 23 August 2012

Innovative design interventions for a changing climate Melbourne: Guest Lecture, Ecology for planning and design, faculty of Architecture, Building and Planning, School of design, **University of Melbourne**, 7 October 2011

Climate Change Adaptation by design. Lecture KINDLE-designing bushfire resilient landscapes. School of Architecture and Design, Landscape Architecture design studio-lower pool. **RMIT University**, 19 August 2011

Climate Change Adaptation and Mitigation by Design. Melbourne: Guest Lecture Environments I, **RMIT University**, 12 May 2011

Innovative design interventions for a changing climate and a sustainable energy supply. Melbourne: Guest Lecture, Ecology for planning and design, faculty of Architecture, Building and Planning, School of design, **University of Melbourne**, 15 October 2010

Energy as guiding principle for spatial planning – towards a fossil free energy supply in 2050. Guest lecture **Chongqing University**, Chongqing, China. 9 June 2010

Swarm planning for climate adaptation: a Dutch experience. Guest lecture **Chongqing University**, Chongqing, China. 10 June 2010

Energy landscapes. Lecture **Wageningen University** and Research Centre, Wageningen, 1 December 2009

The Groningen case: dealing with climate change and energy in spatial planning, 3 lectures **Wageningen University** and Research Centre: landscape architecture, energy & ecology, January-March 2009

Climate change, energy potentials and the spatial impact, 3 lectures **Wageningen University** and Research Centre: landscape architecture, energy & ecology, February 2008

Strategy, planning & sustainability, Lecture Master studio on Energy-landscapes **Wageningen University** and Research Centre, chair of Landscape Architecture, January 2006

The Full-Empty City. Guest lecture **Delft University of Technology**, September 1999

Integrated design, Guest lecture **Delft University of Technology**, Module D9, September 1998

SEMINAR PRESENTATIONS

Swarm Planning for Sustainable Urban Environments. Sustainable Urbanism seminar. Qatar University. **Qatar**, 21 March 2016

Designing Swarming Landscapes for Resilient Cities. Future City Detroit Office. **Detroit**, 7 December 2015

From Fragile to Adaptive. Designing Resilient Cities. Designing for a Fragile Planet symposium, RMIT-**Barcelona**. 30 November 2015

Ontwerpen aan Voedsel in de stad. Masterclass Food & the City: Hype of Trend? **Lunteren**, 13 Oktober 2014

Nederlandische Raumplanung und Anpassung an Klimawandel. Kick-off meeting CALL:ISS. **Midwolda**, 8 Oktober 2014

Swarming Landscapes, Building Resilience for a Climate-proof Future. ISR-seminar, Swinburne University, **Melbourne**, 3 May 2013

Zwermplanning: planningsmethode voor klimaatadaptatie. Op weg naar een klimaat- en krimpbestendige toekomst. Ministeriële workshop, Ministerie I&M. **Den Haag**, 1 oktober 2012

Innovative Change for Climate Design: Transforming the Future. Social Innovation Seminar. Swinburne University, **Melbourne**, 23 March 2012

Swarming Landscapes: The Art of Designing for Climate Adaptation. Lecture National Training Program "Climate Change and Geospatial Technology". **Delhi**, India, 13 March 2012

Dealing with climate change by design (with a little help from the swarm). Geography and Environmental Studies Seminar Series, MSLE, University of Melbourne, **Melbourne**, 5 April 2011

Planning for Climate Change. Essendon Primary School, grade 3/4. **Melbourne**, 31 March 2011

Climate proofing by design: dealing with uncertainty, anticipation and swarm planning. Clean Tech Seminar Series. Griffith Hack, **Melbourne**, 25 March 2011

Improving planning for climate adaptation: what about the swarm? Melbourne -Seminar City of **Melbourne**, 10 November 2010

Spatial Planning for Climate Change Adaptation: What does a Swarm have to do with it? Monthly Climate Change Adaptation Program "borrel", RMIT, **Melbourne**, 6 October 2010

How to plan a climate proof region, Masterclass GfC seminar, **Hof van Eden**, Drenthe, 23 April 2010

INCREASE – spatial planning of a fossil free region in 2050, Workshop GfC seminar, **Hof van Eden**, Drenthe, 22 April 2010

Terug naar de kust. Waddenwiegdebat. Royal Haskoning, **Groningen**, 26 November 2009

Wicked? Eindconferentie Hotspot klimaatbestendig Groningen, **Groningen**, 13 November 2009

Klimaat in het Gronings omgevingsplan; seminar klimaat en structuurvisies; KvR en NIROV, **Utrecht**, 11 June 2009

Lokale energie voorziening gebaseerd op lokale potenties, de case Groene Compagnie;
 Stuurgroep energieconvenant **Groningen**, 4 June 2009

Aanpassing aan klimaatverandering, aanpassing van de energievoorziening en het regionaal
 ruimtelijk ontwerp: swarm planning, lecture VROM, **Den Haag**, 9 February 2009

De avonturen van klimaatadaptatie in het omgevingsplan voor de provincie Groningen,
 lecture klimaatatlas conference, Alterra, **Wageningen**, 22 January 2009

Gallery of opportunities, lecture inaugural conference Wadden Academy, **Leeuwarden**, 2
 December 2008

Een rondje klimaatadaptatie. Lecture for the managers of the province **Groningen**, 29
 October 2008

Sustainable development of the Groningen Wadden area, Board Meeting Wadden Academy,
Terschelling, 12 July 2008

Planning with energy potentials in the province of Groningen, Expertmeeting
 energiepotenties, Stichting Natuur en Milieu Flevoland, **Lelystad**, June 2008

Climate adaptation, energy potentials and regional planning, gemeente Almere, **Groningen**,
 June 2008 Climate Change and energy as inspiration spatial design, Province of
 Friesland, **Leeuwarden**, November 2007

Climate Change and energy as inspiration for the regional design of Groningen, CDA
 (Christian- democrats)-union of representatives in Groningen, **Zuidbroek**, November
 2007

Climate Valley, municipality of **Almere**, June 2007

The space to change and a new regional development plan Groningen, province of South
 Holland, Atelier Zuidvleugel, **Den Haag**, December 2006

Lecture Grounds for Change, Inter Provincial Organisation, meeting of directors, **Groningen**,
 September 2006

The Northern Netherlands 2036, a longing perspective, Meeting of Executives, **Groningen**,
 February 2006

The Sustainable City, example Westerpark, Environmental Federation, Brabant, **Tilburg**,
 June 1996

Sustainable city development in Breda, example Westerpark, Machine room Quality on site,
 Ministry VROM, **Den Haag**, February 1995

Knowledge management for city edge developments, PRO, **Utrecht**, February 1994

DESIGN CHARRETTEs and MASTERCLASSES

September 2015, **Kesenuma**, Japan. Long term development plan for Kesenuma area,
 recovering from the tsunami impact

August 2015, **Binder-soum**, Mongolia. Tourism Development Plan for Binder Sum

May 2015, **Toronto**, Canada. Resilient Don Watershed. Design of resilient watershed for the
 Don River on the occasion of the Dutch Canadian Resilient Cities summit

February 2015, **Dhaka**, Bangladesh. Design of a food resilient Dhaka. One week intensive design studio for designing local food supply, renewable energy, watermanagement, urban metabolism and transportation/mobility

September 2014, **Minamisoma**, Japan. Reborn, Rethink, Return, long term vision for Minamisoma area, suffering from Tsunami and Nuclear disaster

May 2014: **Utrecht**, Dag van de Stadslandbouw. Design charrette/Design workshop for the Potmarge area, Leeuwarden. Long-term vision for a sustainable area development.

October 2013: **Auckland**, New Zealand. Design charrette for the redesign of Wynyard Quarter in Auckland City Centre, dealing with Sea Level Rise, Storm-water flooding and onsite contamination. Unitec

November 2012: **Velp**. Design charrette to design climate adaptation in three European regions: Almere, The Netherlands; Varna, Bulgaria and De Wijers, Belgium. Van Hall Larenstein University for Applied Sciences

June 2012: **Sea Lake**, Australia. Design charrette to design a climate proof plan for the small town of Sea Lake and the surrounding landscape in northwest Victoria, dealing with heat and drought, and occasional floods. Victorian Centre for Climate Change Adaptation Research

March 2012: **New Delhi**, India. Design charrette to design climate proof strategies for the municipality of Hobsons Bay in Australia, dealing with Sea Level Rise, Heat, Bushfire risk and Storm Surges. NISCAIR

November 2011: Greater City of **Bendigo**, Australia. Design charrette to design a climate proof regional design for the city of Bendigo and around, dealing with the risk of Bushfires. Victorian Centre for Climate Change Adaptation Research.

April 2010: **Hof van Eden**. Masterclass How to plan a climate proof region. Grounds for Change conference, Drenthe,

April 2010: **Hof van Eden**. Design charrette to design a Sustainable Highway A27 between Groningen and Assen. Arcadis.

April 2010: **Hof van Eden**. Design charrette to design the Emmen Zoo as a Peoples Park in Emmen. DHV.

April 2010: **Hof van Eden**. Design charrette to design a sustainable urban fringe park, Kiemland in Meppel. Hanze University for Applied Sciences.

November 2009: **Sint Annaparochie**. Jong Fryzen Forut, Design charrette to create designs for a local sustainable future in a shrinking area, where especially youth is leaving.

October 2009: **Beijing, Shanghai**. Increase II. The second design charrette for the International Conference for Renewable Energy Approaches for the Spatial Environment, exploring the spatial options of integrating renewable energy options in the regional design and calculate the demand and supply.

June 2009: **Delft**. Design charrette session exploring the potential of designing with the Swarm Planning methodology, leading to innovative regional designs for parts of the Province of Groningen. During SASBE conference, TU Delft

June 2009: **Groningen**. Design charrette in which the thematic information is integrated into detailed solutions for problematic areas and integrated future regional designs are made.

February 2009: **Huizinge**. Design charrette in which for every agricultural sector a climate proof future scenario is developed and these visions are integrated into one agricultural regional design.

November 2008: **Allersmaborg**. Design charrette to create innovative ideas and scenarios to provide clean and sufficient water under severe climate conditions for the Province of Groningen.

October 2008: **Groningen**. Backcasting the Future II: design charrette to integrate the formerly developed climate proof scenarios in plausible spatial futures and a realisation pathway for the Province of Groningen

June 2008: **Groningen**. Backcasting the Future: design charrette to develop scenario's for a climate proof long-term future for the Province of Groningen on the basis of extreme climate assumptions.

May 2008: **Shenzhen**. Demonstration Project of Sino-Dutch Sustainable Building Demonstration Projects. Vanke Stream Valley, China Vanke Company Ltd.

April 2008: **Amman**, Jordan. Increase (International Conference on Renewable Energy Approaches for the Spatial Environment) I. Design charrette, exploring regional renewable energy potentials and their spatial impact in case study areas in the Netherlands and Jordan. Climate Changes Spatial Planning Knowledge Program and Province of Groningen

March 2008: **Den Ham**. Impulse-Meeting Climate Adaptation Northern Netherlands. Charrette to identify high potential climate adaptation projects for the northern part of the Netherlands. Provinces of Friesland, Drenthe and Groningen, and the Adaptation Spatial Planning and Climate program, Ministry of Housing, Spatial Planning and the Environment

February 2008: **Groningen**. Design charrette for designing a multi-layer coastline for the province of Groningen, which increases its capability to deal with increased risk as result of sea level rise and storm surges. Climate Changes Spatial Planning Knowledge Program.

December 2007: **Guiyang**. Design charrette/TOR-workshop Demonstration Project of Sino-Dutch Sustainable Building Demonstration Projects, Regional Comprehensive Development Cooperation Project of Yu'An and Anjing in YunYan district in Gui Yan City; Kingsbury International Holding Co. Ltd.; Guiyang

December 2007: **Groningen**. Designing a Climate proof Water and Ecology system for the Province of Groningen. Climate Changes Spatial Planning knowledge program.

April 2006: **Jinze**. Bridging to the Future design charrette. Renewable Energy and Spatial Design for the village of Jinze and surroundings. IGU Bridging to the Future project.

March 2006: **Chongqing**. Design charrette/TOR-workshop Demonstration Project of Sino-Dutch Sustainable Building Demonstration Project Sustainable urban and landscape design for large scale greenfield development Chongqing. Longhu Real Estate Development Inc., Chongqing

March 2006: **Beijing**. Design charrette/TOR-workshop Demonstration Project of Sino-Dutch Sustainable Building Demonstration Project Transformation of an inner city high-density site into a sustainable neighbourhood. Beijing, China Overseas Haofeng Property Co., Ltd

May 2005: **Groningen**. Grounds for Change, Bridging to the Future design charrette. Bridging Energy planning and spatial design strategies in Northern Netherlands.

EXAMPLES of OTHER ACTIVITIES

CHAIR

Chair International AESOP Conference Sustainable Food Planning, Leeuwarden, 5-7 November 2014

Thriving Neighbourhoods Conference, Decentralised infrastructure, Melbourne, November 2012

Chair Scientific session, PLEA 09, international conference, Quebec, Canada, June 2009

COLUMNIST

Column KORT BESTECK, Duurzaam Bouwen, Januari 1999 - December 2000

TUTORING

Atelier Leader SWELL, Theme Resilient Landscapes for sea level rise and storm surges. RMIT University, School of Architecture and Design, Landscape Architecture. July-November 2012

Atelier Leader KINDLE, Theme Bushfire Resilient Landscapes. RMIT University, School of Architecture and Design, Landscape Architecture. July-November 2011

Atelier leader 'Jonge Friezen vooruit', Theme: shrinkage in Northern Friesland, Master Van Hall Larenstein, November 2009

Tutoring Masteratelier Climate adaptation and landscape, Chair Landscape architecture, Wageningen, January-April 2008

Tutoring Masteratelier Energy landscapes, Wageningen University-Landscape Architecture, January-April 2006

PhD-SUPERVISION

Paul de Graaf. Wageningen University and Research centre. Ecosystems Thinking in Practice. Start 2015

Seyyed Mohammad Reza Khalilnezhad, University of Kaiserslautern. Urban agriculture as a tool for city and landscape planning in Iran. Start: 2014, expected completion 2018

Jan Buiten, TU Delft. (Scenario) Analyse naar (effecten, interdependencies en condities van noodzakelijke) biobased systeemtransities met bijbehorende ruimtelijk-economische configuraties en hun betekenis voor de (strategische) planningsrol van de overhead. Start: 2015

Ernst Schaefer, University of Oldenburg, Germany (co-supervisor), Planung Anpassung an Klimawandel in Living Labs. Started: 2014

Ashutosh Saidawat, AcSIR CSIR-NISCAIR, New Delhi, India (Ass. Supervisor), completion 2017

Tushar Kaushik, AcSIR CSIR-NISCAIR, New Delhi, India (Ass. Supervisor), completion 2017

Pieter Hertogs, VU Brussel, Department of Architectural Engineering, Enhancing the adaptable capacity of urban fragments (Member Doctorate Jury), 2016

Anila Weerakoddy, Melbourne University, Faculty of Architecture, Building and Planning (Ass. Supervisor), completion 2016

Dennis Williamson, Deakin University, Australia (International Review Committee Member), completion 2015

Nico Tillie, Delft University of Technology, Faculty of Architecture (Ass. Supervisor), completion: 2015

Wim Timmermans, Universidade Santiago de Compostela, Spain (examination committee), completion: October 2013

MSc SUPERVISION

Darren Nel, Pretoria University, completion 2016. Title: Exploring a complex adaptive systems approach to the study of urban change.

Anne Lorène Vernay, Delft University of Technology, completion 2008. Title: Merging energy management and spatial planning. Case study: Delfzijl

Bouke Wiersma, University of Groningen, The Netherlands, completion August 2008. Title: Applying cradle-to-cradle on the regional scale: Spatial planning in the province of Groningen

Kasper Klap, Wageningen University and Research Centre, The Netherlands, completion September 2008. Title: Design climate adaptive Delfzijl

Hao Huiqin (Vera), Van Hall Larenstein, Wageningen University and Research centre, completion August 2010. Title: Spatial Planning for Climate Change Adaptation

Wang Xin (Jim), Van Hall Larenstein, Wageningen University and Research centre, completion August 2010. Title: Spatial Planning for Climate Change Adaptation

Li Xintong (Lavender), Van Hall Larenstein, Wageningen University and Research centre, completion August 2010. Title: Spatial Planning for Climate Change Adaptation

INVITED PANEL MEMBER

Panel Member, Urban Agriculture Strategy Meeting, Resilient Cities Conference. **Bonn**, 28 May 2014

Panel member, F:ACTS closing symposium, **Brussels**, November 2012

Panellid, themabijeenkomst rapport Deltacommissie, ABC café, Hanzehogeschool, **Groningen**, October 2008

Panellid, themabijeenkomst klimaatadaptatie in stedelijk gebied, DHV, **Amersfoort**, april 2008

Panellid Afwegingskader klimaatverandering, water en ruimte, congres De kracht van water, **Amsterdam**, November 2007

EXPERT TEAMS

Member Dutch Expert team Asia Facility, training Chinese staff and students on sustainable building, planning and management, Chongqing University, September 2008-may 2009, EVD

Member Dutch Expert team on green building, TOR-design workshop, Demonstration project Shenzhen China, Ministry of Construction, China, Ministry VROM, the Netherlands, May 2008

Member Dutch Expert team on green building, TOR-design workshop, Demonstration project Guiyang China, Ministry of Construction, China, Ministry VROM, the Netherlands, December 2007

Participation expert meeting natuur en klimaatverandering, Kamerick, Oktober 2007

Participation AESOP-meeting Complexity and Planning, Cardiff, May 2006

Member Dutch Expert team on green building, TOR-design workshop, Demonstration project Chongqing China, Ministry of Construction, China, Ministry VROM, the Netherlands, March 2006

Member Dutch Expert team on green building, TOR-design workshop, Demonstration project Beijing China, Ministry of Construction, China, Ministry VROM, the Netherlands, March 2006

Participation Master class creativity, Kjell Nordström, Arnhem, October 2005

Participation Oxford Futures Forum, Templeton College, Oxford, October 2005

Participation Round-table conference mixed use, on initiative DG Space, Ministry VROM, May 2004

Participation polder Mastenbroek, design-meeting & movie, February 2004

Participation expert meeting 'the creative city, Groningen, December 2003

Participation expert meeting KEI, The green closing entry, Rumpt, February 2002

Participation expert meeting 'Water in the South Axis, Amsterdam, June 1998

Participation expert meeting 'building on and over highways', Bos and Lommer, Amsterdam,

Participation expert meeting 'ecology and landscape in Meerhoven', Eindhoven, October 1996

REVIEW COMMITTEES/JURIES

External Reviewer, EVO DEVO Studio, AAP Architecture, Art, Planning, Cornell University, Ithaca, 5 December 2015

External Reviewer, Studio Mess 3: >fit< for Resilience, Creswick 2042, faculty of Architecture Building and Planning, School of Design, University of Melbourne, 8 November 2012

External Reviewer Design Studio Landscape design, Faculty of Architecture, University of Melbourne, 25 May 2011

External Critic, Design Studio Landscape Architecture "FLOAT. Designing with the dynamics of extreme water events"; RMIT University, 15 April 2011

Member reviewing committee Master course strategic management technology: technical business school: Evaluation business case biochar, RUG, Groningen, April 2009

Member technical jury National Passive Solar Energy Competition for Municipalities, January 1998

PARTICIPATION DESIGN TEAMS

Member design team 'WECAN: An agropark for Wuhan Area, China'; start may 2009

Participation Design Charette Bridging to the Future, Shanghai, April 2006

Participation Design Charette Grounds for Change, Groningen, May 2005

Participation O2 Challenge, November 1998

Participation design-seminar Locus, ecology and landscape Architecture, October 1992

DESIGN COMPETITIONS

SFBDNA, entry in the Rising Tides Competition, San Francisco Bay Area, R. Roggema & E. Vrensen, July 2009, Honorary Mention

AANSCHOUWEN and TANKERPARCS, Het Gezicht van Zeeland, March 1999

CARROUSSEL40PJ, Levende Energie, November 1998, Contribution

Derde EO-Wijers-competition Breda, Het Stromend Stadsgewest, January 1992