

Dr Carina Weingaertner Civ Eng, MSc, Lic, PhD

Research Fellow

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About

Carina Weingaertner is Research Fellow working in a Knowledge Transfer Partnership between the University and CH2MHill.

Carina has worked in cross-disciplinary research projects, involving a number of partners from academic and non-academic backgrounds. She has also developed modules and taught at post-graduate planning degrees.

She has international experience in the field of sustainable urban development and has worked with local government, NGOs, industry and academic partners in countries that include Sweden, UK, South Africa and Brazil.

Qualifications

- PhD in Infrastructure, specialised in Environmental Strategy Analysis, Royal Institute of Technology (KTH) – Sweden, 2011. Research Topic: Urban planning, regeneration and sustainable development
- Honorary Research Fellow 2010. School of Civil Engineering, University of Birmingham, UK
- MPhil (Licentiate of Engineering) in Infrastructure, KTH, 2005. Research topic: The role of public transport systems in the urbanization process and their contribution towards more of environmental sustainability.
- MSc in Environmental Engineering and Sustainable Infrastructure, KTH 2003. Research Topic: Solid Waste Management in Low-Income Areas
- Bachelor degree in Civil Engineering, Universidade Federal do Parana, Brazil 2001

Biography

Prior to joining the University of Birmingham Carina Weingaertner has worked at the planning policy office at Coventry City Council, dealing with questions related to the sustainability implications of new planning policies and large urban developments. She has also worked with the waste management team at the same City Council, mostly working with waste minimization, re-use and recycle in ongoing management practices.

Carina has also studied and worked at the School of Architecture and the Built Environment at the Royal Institute of Technology in Sweden from 2001-2008. There she was involved with research projects within the sustainable urban development field. Part of that research dealt with household waste management in low-income housing areas of developing nations (including South Africa). The later research (2003 onwards) focused on producing new knowledge about the process of change that can promote sustainable urban development, with case studies in Stockholm (Sweden), Curitiba (Brazil) and Dar es Salaam (Tanzania). Before that, Carina worked for 2 years at the Centre for Civil Engineering Studies at the Federal University of Parana, in Brazil doing research in the field of soil mechanics.

Teaching

Post-graduate modules

- Sustainable Cities (20 credits) – module development, co-ordination and teaching (2008/09, 2009/10). Centre for Urban and Regional Studies, University of Birmingham, UK
- Transport Planning (20 credits) – module development, co-ordination and teaching (2007/08, 2008/09). Centre for Urban and Regional Studies, University of Birmingham, UK
- Sustainability and Planning (10 credits) – module development, co-ordination and teaching (2007/08). Centre for Urban and Regional Studies, University of Birmingham, UK
- Future Studies and Forecast – teaching assistant (2003, 2004). Department of Urban Planning and Environment, Royal Institute of Technology, Sweden
- Sustainable Project Management – teaching assistant (2003, 2004). Department of Urban Planning and Environment, Royal Institute of Technology, Sweden
- Political Economy for Environmental Planners - teaching assistant (2003). Department of Urban Planning and Environment, Royal Institute of Technology, Sweden

Undergraduate modules

- Urban and Regional Economy – teaching (2008, 2009). Centre for Urban and Regional Studies, University of Birmingham, UK
- Managing European Cities – teaching (2010). Centre for Urban and Regional Studies, University of Birmingham, UK

Research

RESEARCH THEMES

- Sustainable urban development and planning
- Public transport

- Urban and brownfield regeneration
- Social sustainability in urban areas
- Household waste management

RESEARCH ACTIVITY

- Sustainable Regeneration from evidence-based urban futures to implementation. Funded by the UK Engineering and Physical Sciences Research Council (EPSRC) 2008-2010. (www.urban-futures.org)
- An Integrated Approach to Sustainable Urban Redevelopment: Birmingham Eastside as a National and International Demonstrator. Funded by the UK Engineering and Physical Sciences Research Council (EPSRC) 2006-2008. (www.ers.bham.ac.uk)
- MAMMUT – Managing the Metabolism of Urbanization. Funded by the Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS) 2003-2005

Publications

- Weingaertner C, Moberg Å (2011) Exploring Social Sustainability: Learning from Perspectives on Urban Development and Companies and Products Sustainable Development. Wiley.(In press)
- Weingaertner C (2010) Identifying Strategic Initiatives to Promote Urban Sustainability. Royal Institute of Technology, Stockholm: E-print AB.
- Weingaertner C, Barber A (2010) Urban Regeneration and Sustainability: The role for established small businesses. *European Planning Studies*, 18 (10):1653-1674. Routledge
- Svane Ö, Gustafsson S, Wangel J, Jonsson D, Höjer M, Lundqvist P, Palm J, Weingaertner C (2009) Situations of Opportunity in City Transformation – enriching evaluative case study methodology with scenarios and backcasting, exploring the sustainable development of three Stockholm city district. Presented at ENHR Conference in Prague, June 2009.
- Kyung S, Barber A, Groves R, Lee P, Trickett L, Watson C, Weingaertner C (2009) The Development of Urban Regeneration Policy in the United Kingdom – Stage 2 report. University of Birmingham: CURS.
- Weingaertner C, Barber A (2008) 'Urban Development and Diversity: The Complexities of Planning for Sustainable Residential Neighbourhoods in the Inner City', presented at AESOP ACSP Planning Conference, Chicago July 2008.
- Weingaertner C, Brikell B, Svane Ö (2008) Daladala Buses Deregulated – Assessing Methods for Analysing Sustainable Development's Situations of Opportunity through a Tanzanian Example. *International Journal for Sustainable Development and Planning* 3(1), WIT press.
- Weingaertner C (2008) Social Sustainability and Urban Regeneration, presented at UK Planning Research Conference, Belfast March 2008.
- Weingaertner C, Barber A (2007) Effects of Regeneration on Small Businesses in Eastside. University of Birmingham: CURS.
- Weingaertner C, Svane Ö (2006) "MAMMUT – Managing the Metabolism of Urbanization: Testing theory through a pilot study of the Stockholm Underground". *Sustainable Development*, 14 (5): 312-326. Wiley InterScience.
- Weingaertner C (2005) Analysing Synergies between Urbanization and Sustainable Development - Developing a Draft Theory through Historical Pilot Studies, Stockholm: Universitetservice US AB.
- Weingaertner C (2005) Developing Methods for Analysis of Public Transport Systems to Promote Environmentally Sustainable Urban Development – Learning from Historical Situations of Opportunity in Curitiba and Stockholm. Presented at European Network for Housing Research (ENHR) Conference, Reykjavik, July 2005.
- Weingaertner-Kohlscheen C (2003) Towards Integrated Solid Waste Management in Low-Income Housing Areas in Durban, South Africa, Stockholm: Universitetservice US AB.
- Dyminski A S, Quorin N, Ribeiro E P, Romanel C, Weingaertner, C (1999) Modeling the Mechanical Behavior of Curitiba's Experimental Site's Clay In: XX CILAMCE – Iberian-Latin-American Congress in Computational Methods for Engineering, 1999, São Paulo. v.CD-ROM.

