

Gregory Patrick **Keeffe** B.Sc. M.Sc. FRSA

Professor of Architecture + Urbanism
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Date of Birth 22/03/63. Nationality British



Education

1990 [University of Manchester]	M.Sc.	Low Energy Architecture.
1984 [University of Manchester]	B.Sc.(Hons)	Mechanical Engineering.

Employment

Head of School of Natural and Built Environment, Queens University, Belfast.

Previous employment

Professor of Architecture + Urbanism, Director of Research [Head of School of Architecture], Queens University, Belfast 2012-2016.

Strauch Professor of Sustainable Architecture, AAP Cornell University USA Fall 2013 and Fall 2015.

Professor of Sustainable Architecture, and Director of Leeds School of Architecture 2009-2012.

Principal Lecturer, Head of Design, Manchester School of Architecture, MMU 2003-2009.

Senior Lecturer, Manchester School of Architecture, MMU 1992-2003.

Lecturer, University of Salford. 1988-1992.

Research Assistant, UMIST 1984-1988.

Specialisms

Low-carbon Design, Sustainable and Resilient Urbanism, Urban Agriculture, Bio-climatic and Climate-Proof Design.

Greg Keeffe is an academic and urban designer with over 30 years experience in sustainability, energy use and its impact on the design of built form and urban space. Greg has extensive experience of working closely with architects and planners to develop exciting ways of re-invigorating the city through the application of innovative sustainable technologies, informing his work on the sustainable city as synergistic super-organism. In this way, he has sought to develop a series of theoretical hypotheses about our future existence on the planet, through a series of technological and spatial interventions, through closing cycles and making productive interventions. Most of his work comes out of a free-thinking open-ended discussion about how things should be.

He is currently Head of the School of Natural and Built Environment, an inter-disciplinary grouping of academics, whose focus is the affect change in the Anthropocene.

Research, Design and Consultancy.

Research Grants

2020	Innovate UK – Ideal Home: an assessment and redesign of chicken rearing in UK £200,000. Sept 2020.
2017	ESRC and Urban Europe SUGI Food Energy Water Nexus M-NEX - The movable NEXUS in a changing Climate. €300,000, €2million total with Keio Japan, U of Michigan, TU Delft, UTS Sydney, and U of Qatar. June 2018 – June 2021.
2014	FP7 Smart Cities – City-ZEN: carbon-neutral renovation of suburbs with Amsterdam City, Grenoble City, KEMA, TU Delft et al. Successful. Start date June 2014. €12million over 5 years 04/2014 to 12/2019.
2014	Innovate UK. Design for Future Climate 2. The IDEAHaus, with Triangle Architects [£100,000].
2013	SBRI Green Genius Award: £100,000 Food producing Façade with Building Design Partnership.
2012	Technology Strategy Board . Design for Future Climate with Triangle Architects [£100,000]

Prizes

2018	Smart and Sustainable Built Environments, Sydney. Paper of the Conference
2015	Winner: Ebbsfleet Garden City competition, with AECOM and MacCreanor Lavington.
2013	PLEA 2013, Munich – Paper of the Conference – The IDEAHAUS. Climate-proof modular housing.
2013	Manchester International Festival – Societal Impact award for the Biospheric Project
2009	Winner: RIBA Urban Buzz – self-build urban housing competition.
2006	Winner: RIBA Whitefield Nelson, Sustainable Neighbourhood International Competition
2000	Winner RIBA Sustainable Housing Chorlton Park Competition

Selected Publications

Books

- G.P. Keeffe and R. Roggema. eds. Why we need small cows: Design for Urban Agriculture. VHL Press 2014. ISBN 978-90-822451-1-0
- G.P. Keeffe. Nutritious City Vol 1.1. in Urban Agriculture Lectures Series. ed. R. Roggema 2014. VHL Press. ISBN 978-90-822451-0-3
- G.P. Keeffe and D. Radovic. Urban Evolutionary Morphology. InfraPress 2012 ISBN 978-1-908562-08-1.

Refereed Journal Articles

- G.P. Keeffe and Han, Q. 'Mapping the Flow of Forest Migration through the City under Climate Change' Urban Planning. Vol4 Iss 1 City of Flows. Feb 2019. ISSN 2183-7635. 2019
- A.A.J van den Dobbelen, G.P. Keeffe et al. From Problems to Potentials - The Urban Energy Transition of Gruž, Dubrovnik. Energies ISSN1996-1073. 2018.
- G.P. Keeffe & A.A.J. van den Dobbelen. co-Editor special edition "Sustainable Architecture and Design"- for the Journal Sustainability, Jan 2017. and intro paper.

Refereed Book Chapters.

- G.P. Keeffe Hardware Software Interface: a Strategy for the implementation of Urban Agriculture. In Sustainable Urban Agriculture and Food Planning. Roggema, R. (ed.). London: Routledge, Taylor & Francis Group, 20 p. Jun 2016
- G.P. Keeffe, Hall N. Jenkins A.J. Garden Cities: A Flawed Model for Ecological Urbanism?. In Sustainable Urban Agriculture and Food Planning. Roggema, R. (ed.). London: Routledge, Taylor & Francis Group, 23 p. Jun 2016.
- G.P. Keeffe Productive Synergies in the city. In Keeffe and Roggema, Why we need small cows: Design for Urban Agriculture VHL Press 2014. ISBN 978-90-822451-1-0.
- G.P. Keeffe Biproductive urban landscapes: new options for the collapsoscape. In Stremke and vd Dobbelen Sustainable Energy Landscapes Taylor and Francis 2012. ISBN-13: 978- 1439894040

Design

My design work is particularly in the area of urban and environmental design. I am often employed where the project needs innovative solutions to environmental problems. Here is a list of some of the more interesting:

- 2019 **Dohar Campus FEW strategy** Qatar with M-Nex team.
- 2018 **Belfast East. Food water energy strategy** with U Qatar, TU Delft, UTS Sydney, Keio U, U of Michigan
- 2014-18 **CityZEN Carbon descent strategy #1 – 10**Belfast, Izmit, Dubrovnik, Menorca, Sevilla, Roeslare, Amersfoort, Nicosia S and N, and Preston UK, with TU Delft, U Sienna, VITO and ThinkE
- 2018 **Amsterdam City carbon descent strategy** with TU Delft, U Sienna.
- 2013 **IDEAHAUS: Climate Proof modular house** with Triangle Architects. (PLEA13 Award Winner).
- 2013 **Greenius Façade: food producing climatic façade** with Saint Gobain Glass and BDP.
- 2013 **The Biospheric Project:** Adapting a disused Victorian Mill to be a Twenty-first Century farm.
- 2009 **Urban Buzz, Self-build housing competition,** (RIBA Competition Winner)
- 2006 **Whitefield, Nelson, Lancs, CITYLAB** with MacCreanor Lavington, Rotterdam HMRI Pathfinder (RIBA Competition Winner.)
- 2005 **Salford Vision 2020.** Shortlisted in international RIBA Competition
- 2003 **Chorlton Park Housing, Chorlton, Manchester,** with Stephenson Bell Architects. (MULTI AWARD WINNER, including RIBA Sustainability Award).

External Appointments (selected)

Academic

- 2018- Economic and Social Research Council Peer reviewer
- 2017- Belfast City. Rockefeller 100 Resilient Cities Team.
- 2014- RMIT Melbourne. Adapt-r PhD by Practice in Architecture, Examiner.
- 2013 and 2015 Cornell University USA: Strauch Visiting Professor of Sustainable Architecture.
- 1997 –pres TU Delft, Netherlands, Visiting Professor, Climate Design. Faculty of Architecture.
- 2012 Keio University, Japan. Visiting Professor.

Professional

- 2016- Sustainability (journal). Editor special edition "Sustainable Architecture and Design".
- 2016- Façade Tectonics, Scientific Panel.
- 2015- Smart and Sustainable Built Environments Journal, Scientific Panel.
- 2009- Passive and Low Energy Architecture, Technical committee member

Other

- 2020 **European Union Horizon 2020 External Advisor. Urban Agriculture.**
- 2019 European Union Horizon 2020 External Advisor. Urban renewal.
- 2017 European Union Horizon 2020 External Advisor. Urban Renewable Energy.
- 2014 European Union Horizon 2020 External Advisor. Climate Resilience.