

Prof. Dr. Steffen Lehmann
University of Nevada, Las Vegas, USA

General information

Professor of Architecture and Director, School of Architecture, College of Fine Arts, University of Nevada, Las Vegas, Nevada NV 89154, USA

Web site: www.unlv.edu/architecture and www.city-leadership.com

***Born 1963 in Stuttgart, Baden-Wuerttemberg, Germany**

Dual citizenship: German citizenship and Australian citizenship. Currently a U.S. resident.

Fields of Research

Professor Lehmann is an internationally renowned researcher and thought leader in the field of sustainable architecture and urban design principles, exploring the complex relationship with nature, technology and place. Most of his own research projects are design/architecture/engineering nexus based, concerned with the integration of low-carbon/low-impact technologies in architectural design and the social/behavioral and urban context, and concerned with our relationship to nature and place.

Honours and Memberships

Memberships, Learned Societies and other Appointments

- Member, Architektenkammer Berlin (1993-2003)
- Member, Bund Deutscher Architekten (1996 to date)
- Member, Royal Australian Institute of Architects (RAIA) (2003 to date)
- Member, UNESCO Chair in Sustainable Urban Development, Advisory Board (2008-10)
- Member, Australian Institute of Urban Studies (2010-12)
- Member, Zero Waste Centre Advisory Board (2010-14)
- Member, Executive Board, Barbara Hardy Institute, UniSA (2011-12)
- Chair, China-Australia Centre for Sustainable Urban Development Advisory Board (2012-14)
- Member of the UN working party for preparations of HABITAT III (2013-16)
- Member, UN ESCAP Expert Group 'The New Urban Agenda' (2012-16)
- Member, Humanities Management Board, Curtin University (2014-15)
- Member, Australian Deans of the Built Environment and Design (2014-15)
- Member, Coastal Cities Network, Research Group, UK (2016 to date)
- Member, Developers Group, Shaping Portsmouth, UK (2016 to date)
- Member, Royal Institute of British Architects (RIBA), UK (2016 to date)
- Invited Academician, Academy of Urbanism (AoU), UK (2016 to date)
- Member, American Institute of Architects (AIA), USA (2018 to date)
- Member, AIA Resilience Network, American Institute of Architects, USA (2019 to date)

Leading international research collaborations and grants

Steffen is a global citizen: he has lived and worked in Berlin, London, Tokyo, Berkeley, Las Vegas, and Australia, experiencing a very broad range of practice methods and research approaches. He is an experienced leader of change - strategic, operational and cultural - with an ability to develop, communicate and deliver a compelling vision to a range of internal and external stakeholders. Over the last years he has managed and implemented an immense programme of change, transforming and repositioning a large School of Built Environment as a research-led and future-ready powerhouse (with an increased research output by +36% pa). Steffen has demonstrated a strong capacity to engender and lead collaboration between the research and policy communities, and to foster research that anticipates and responds to policy necessities, and provide high quality advice to urban leadership.

He is currently **Principal Investigator (PI)** on a range of grants for multidisciplinary/multi-stakeholder international projects, and his research projects are funded by the EU, NSF, ESRC, AHRC, Innovate UK, Newton Fund, and British Council, as well as by numerous industry partners.

He has attracted large funding in grants and, as Founding Director of three flagship research centers, was managing research projects of the value of over **\$15mill. in grants and contract research**. The impact of his work has influenced corporate behavior, municipal policies and legislation. He is currently Principal Investigator of a \$2mill interdisciplinary grant 'CRUNCH – The Food –Water-Energy Nexus' which is **funded by the NSF, ESRC, AHRC and Innovate UK**. In June 2018, he led the 'Insight' Workshop on urban resilience at XJTU in Xi'an, China, funded by Newton Fund, the British Council and the National Science Foundation China, leading a group mission of 30 academics to China.

Professor Lehmann has performed roles in various national and international advisory boards, commissions, juries, scientific committees, Ph.D. committees, journal review committees, conference organizations, etc. - far too many to mention. Notably, he has been a leading person with UN ESCAP, for which he participated in panels and produced research reports for the last ten years (since 2008).

Member of international and national Design Competition Juries

Over the last 20 years, he has frequently served as jury member for international, national, and state awards for organisations such as the Senate of Berlin, the Royal Australian Institute of Architects, the Australian Housing Industry Association and other bodies. For instance, he has been appointed to serve on design juries for:

2013 Siemens Green Technology Journalism Award 2013, Asia–Pacific Region, Singapore
2011–12 'The Zero Carbon Challenge', Adelaide (appointed by LMC, SA Government)
2010 'Hub-2-Hub', Singapore (appointed by the Urban Redevelopment Authority, URA)
2009 'Harmony Point', HoChiMinh City (appointed by Municipality of HCMC)
2007 National Urban Design Awards 2007, Housing Industry Association (HIA), Sydney
2006 BlueScope Steel Glenn Murcutt Student Prize 2006
2005–06 'Etihad Towers', Abu Dhabi (appointed by H.H. Sheikh S. Bin Moh'd Al-Nahyan)
2005 'Wedding Pavilion', Brisbane Roma Street Parklands (appointed by Qld Government)
2004 Queensland State Awards of the Royal Australian Institute of Architects (RAIA)
2000–01 'Leipziger Platz', Berlin (several competitions, appointed by Senate of Berlin)

Education and Qualifications

Qualifications

PhD (Dr.-Ing.), Technical University of Berlin, Germany, 1999-2003 AA Dipl.,
AA School of Architecture, Architectural Association, London, 1988-91

Dipl. Des. (Arch & Des), Univ. of Applied Science, Mainz, 1985-88 – equivalent to a Master's degree
Vor-Dipl. Des. (Arch & Des), Univ. of Applied Science, Trier, 1983-85 – equivalent to a Bachelor degree

Professional experience

Dr.-Ing. Steffen Lehmann is a full Professor of Architecture (with tenure) and Director of the School of Architecture (SoA), at the University of Nevada, Las Vegas, with more than 30 years of experience in practice and academia.

Prior to his appointment in the U.S., Professor Lehmann was a tenured full Professor for 3 years in the UK (from Nov 2015 to Oct. 2018), and for 13 years in Australia (from Dec. 2002 to Nov. 2015), where he held a number of senior leadership positions: full-time positions ranging from Head of School of Built Environment, to Director of Research, Founding Director of three flagship Research Centres on Sustainable Architecture at the University of Portsmouth, and at the University of South Australia. He has led the implementation of the strategic renewal of the research and teaching areas of large schools and established university-wide research centres. At UniSA, he also led the China engagement of the university and was Director of the China-Australia Centre for Sustainable Urban Development, with Tianjin University.

Employment history - Significant roles held during the past 20 years

Over the last sixteen years, Steffen Lehmann served in different senior leadership roles at leading universities, establishing new research centres, building teaching quality, and driving impactful activities:

- 2018 to date: **PRESENT EMPLOYMENT**
- Job Title: Professor of Architecture and Director of the School of Architecture, UNLV, Las Vegas, USA.
- 2016 to 2018: Job Title: Professor of Sustainable Architecture (Band-3 Senior Professorship); **Faculty Research Theme Lead 'Sustainable Cities'**, Founding Director of the Cluster for Sustainable Cities; Faculty of Creative and Cultural Industries, Employer: University of Portsmouth, UK. Dates: 1 Jan. 2016 – 30 Sep. 2018. Contract type: Permanent, full-time. The Cluster is a cross-Faculty university-wide initiative, reports directly to the DVC-R and is part of his executive group; with more significant visibility than those areas which sit at a Faculty level.
- *Dec. 2015: International relocation from Australia to Portsmouth, UK.*
- 2016 -2018: Senior Research Fellow at the Institute for Sustainable Futures (ISF) at UTS, Sydney
- 2014-2015: Job Title: Head of School and Professor of Architecture, School of Built Environment, Employer: Curtin University, Perth, Dates: 1 July 2014 – 31 Oct. 2015 Contract type: Permanent, full-time.
- 2010-2014: Job Title: Director of the Centre for Sustainable Design & Behavior (sd+b); and Founding Director of the China-Australia Centre for Sustainable Urban Development; tenured Research Chair, Professor of Sustainable Design, Employer: University of South Australia, Adelaide;
- Dates: 1 July 2010 – 30 June 2014 Contract type: Permanent (tenured), full-time.
- Professor Steffen Lehmann obtained tenure as full Professor in July 2011.
- 2006-2010: Job Title: Professor of Architecture, School of Architecture and the Built Environment (an Endowed Chair: Suters Chair), Employer: University of Newcastle (NSW)
- Dates: 1 July 2006 – 30 June 2010. Contract type: Contract, full-time.
- 2008-2010: Chair holder of the UNESCO Chair in Sustainable Urban Development for Asia and the Pacific, at the University of Newcastle). Contract type: Contract, full-time.
- 2003-2006: Job Title: Chair Professor of Architecture and Head of Discipline, School of Design
- Employer: Queensland University of Technology, Brisbane
- Dates: 1 June 2003 – 30 June 2006. Contract type: Permanent, full-time.
- *May 2003: International relocation from Berlin, Germany to Australia.*

- 1993-to date: Founding Director and Principal of Steffen Lehmann Architekten GmbH in Berlin. During the time in Berlin, he has held a number of Visiting Professor positions at universities in Germany.

With his own architectural and urban design practice, the s_Lab, Steffen was actively involved in **the architectural creation of the 'New Berlin'**. His academic teaching career started in 1991 in London while working in the office of James Stirling, Michael Wilford and Associates.

Visiting Professorships – Global engagement

Steffen has held prestigious visiting professorial positions at leading universities worldwide. In 2009, he was awarded the prestigious DAAD-Visiting Professorship at the Technical University Munich, Germany.

- Arts Academy Berlin-Weissensee (1997-1998)
- Tongji University, Shanghai (2003)
- Technical University Berlin (2005)
- National University of Singapore (2009)
- Technical University Munich (2009), DAAD-Professor
- University of California at Berkeley (2012)
- Tianjin University in the P.R. of China (2014)
- Honorary Appointment at UTS, Sydney, Institute for Sustainable Futures (2016-2018)
- ANU Ahmadabad, India (2017-2018)
- Distinguished Visiting Professor, Xi'an Jiaotong University, China (2018), NSFC-funded
- Visiting Professor, University of Portsmouth, UK (2018-2019)

Internationally, Professor Lehmann is considered one of the leading experts in the area of the sustainable built environment, demonstrated by the various requests he receives from a multitude of universities across the world. He has only accepted temporary positions at international universities when it added value to his research collaboration at his home university, where he has always had freedom to develop his own research group.

He has been invited as an **External Examiner for Ph.D. studies** at leading universities, including the University of Sydney, the University of Western Australia, Bond University, the University of Salford, and Hong Kong Poly University.

Public speaking – invited lectures worldwide

Steffen has been invited to present at more than 500 conferences, symposia and public events in 40 different countries, and **lectured at the top architecture schools in the world**, including lectures at:

Architectural Association School of Architecture – United Kingdom
Delft University of Technology – Netherlands (multiple times)
University of California, Berkeley, USC, and Harvard University – United States (multiple times)
University of Oxford – United Kingdom
National University of Singapore – Singapore (multiple times)
Tsinghua University and Tongji University – China
Hong Kong Polytechnic University – SAR Hong Kong (multiple times)
Milano Polytechnic University– Italy
Technical University Munich and Technical University Berlin – Germany (multiple times)
The University of Sydney and University of New South Wales – Australia (multiple times)
The University of Melbourne – Australia (multiple times)

KTH Royal Institute of Technology – Sweden (multiple times)

Technical University Vienna – Austria

He also presented at MoMA New York, the Venice Biennale, TED Talks, the Chinese Academy of Social Sciences in Beijing, and at numerous other prestigious venues.

A Google search on his name shows over 4 million results.

Research work

Professor Lehmann has acquired, coordinated and conducted numerous research projects, nationally and internationally, supported by the EU, NSF, cities, commercial parties and industries, leading to innovation in models, methods, tools, strategies and solutions. His track record of publications is evidence for sustained scholarly contributions and advancement of knowledge in the relatively young research field of ‘sustainable urbanism’. Given the significant leadership roles he has held over the last 16 years, the number of publications is strong with a steep increase of academic publications since 2010. With over 2,000 citations and a Hirsch-index of 21 (Jan. 2019) Professor Lehmann is scoring very high among his peers. He has defined and introduced the concept of *Green Urbanism* design, fundamental to the education of architecture and urban design students worldwide.

He has been in research intensive leadership positions for ten years. During this time he has had significant responsibility for creating and leading new urban research formations. He has exploited these opportunities with distinction generating a large publication and granting output and a continuous stream of successful research students. Steffen was invited as keynote speaker at over 100 important international conferences in 40 countries.

He is a prolific publisher. He has published 19 authored, edited or co-edited books, numerous book chapters (50+), and countless articles and papers (300+), 5 journal special issues, entries to encyclopedias and co-authoring of important UN reports. He has around 2,000 citations on Google Scholar (**h-index 21; i10-index 33**), including numerous high-impact publications. Some of his publications have been translated into Chinese, German, French and Spanish.

Some of his most recent books: ‘Low Carbon Cities. Transforming Urban Systems’ (Routledge, 2015); and ‘Sustainable Lina. Adaptive Reuse Projects by Lina Bo Bardi’ (Springer, 2016). ‘Growing Compact. Urban Density’ (Routledge, 2017); ‘Urban Regeneration. A Manifesto for transforming Cities’ (authored book, Palgrave, 2019). New forthcoming book: ‘Urban Informality and Sustainability’ (co-edited volume, Routledge, 2020).

Steffen is the Editor-in-Chief of the *Book series on Sustainable Design* for Routledge (London/New York), 2010-date.

Recent publications (selection)

Scholarly Books (Authored)

1. **Lehmann, S.** 2010. *The Principles of Green Urbanism. Transforming the City for Sustainability*, 2nd edn. London: Earthscan; including the case studies ‘PortCity’, ‘Green Corridor’, and ‘City Campus’; 910 pages, 800+ illustrations, Aug. 2010; paperback/hardcover editions; in 2nd Edition; Chinese edition April 2013.
2. **Lehmann, S.** 2019. *Urban Regeneration. A Manifesto for transforming Cities in the Age of Climate Change*,

London: Palgrave; 270 pages, April 2019; paperback/e-book editions.

Scholarly Books (Edited) - selection

3. Condello, A. and **Lehmann, S.** (eds) 2016. *Sustainable Lina. Lina Bo Bardi’s Adaptive Reuse Projects*, Springer, Netherlands/New York (forthcoming, to be published Oct. 2016), ISBN 978-3-319-32983-3, 185 pages: www.springer.com (published Sep. 2016)

4. **Lehmann, S.** (ed.) 2014 (launched Sep. 2014). Editor and lead author of scholarly book, 3rd in series of 5 books: *Low Carbon Cities. Transforming Urban Systems*, Earthscan series on sustainable design. Earthscan from Routledge (Taylor & Francis Publishing House), Oxfordshire, UK, launched May 2014 in UK and in the US (hardback, paperback and e-book versions). 445 pages, hardback, paperback, e-book; ISBN 978-0-415-72983-3.

5. Crocker, R. and **Lehmann, S.** (eds) 2013. *Motivating Change. Consumption, Behaviour and Sustainable Design'*, published Aug. 2013, Earthscan Book Series for Routledge, London; ISBN 9-7804-1582-977-9

6. **Lehmann, S.** & Crocker, R. (eds.) 2012. *Designing for zero waste. Consumption, technologies and the built environment*, Earthscan from Routledge (Taylor & Francis imprint), Oxfordshire, UK, ISBN: 978-1-84971-434-1 (Hardback); 978-1-84971-435-8 (Paperback); 978-0-20314-605-7 (e-book). 418 pages; launched in UK Dec. 2011; in U.S. Jan. 2012: www.tandf.co.uk. This was the first volume of the book series on Sustainable Design for Earthscan/Routledge (London).

7. **Lehmann, S.**; Al-Qawasmi, J.; Al Waer, H. 2010. (eds). *Proceedings for the International Conference: Sustainable Architecture and Urban Development, Vol. I-IV*; CSAAR Press / CIB / iiSBE Conference, July 2010. Amman. 21 refereed chapters in 4 volumes.

Invited Book Chapters - selection

8. **Lehmann, S.** 2015. Green Urbanism: from fossil-fuel dependent cities to sustainable eco-cities. 'Urbanisms' (eds. Tigran Haas and Krister Olsson), in English and Swedish, published by Nordic Academic Press in Nov 2015 in Stockholm, Sweden: www.nordicacademicpress.com/

9. **Lehmann, S.** 2015. Green Districts: Increasing Walkability, Reducing Carbon and Generating Energy, in : Prochazka, A, Breux, S, Séguin, C and Boyer-Mercier, P (eds.), *Toit urbain. Les défis énergétique et écosystémique d'un nouveau territoire*, Québec, Canada: Laval University Press (launched Sep 2015).

High-level Report

10. **Lehmann, S.** and Xie, HT. 2015. 'A Green Urban Development Agenda for the Asia-Pacific', p.152-157, in "State of Asian and Pacific Cities 2015" Report (2nd Report, 2015). Published by UN-HABITAT and UN ESCAP, Nairobi/Bangkok; publisher: UN-HABITAT, ISBN: 978-2-1-132681-9. Launched at APUF-6 in Jakarta, 18 Oct. 2015 (available online and print): <http://unhabitat.org/books/the-state-of-asian-and-pacific-cities-2015/>

Research leadership

Steffen's Cluster for Sustainable Cities in the UK brings together a group of over 40 researchers and key industry partners with an interest in resilient urban futures. The **Cluster for Sustainable Cities** developed a trans-disciplinary approach to scaling-up urban innovation for low-carbon living, working and mobility. Steffen's research interests span architecture, urban design and sustainability with a strong focus on improving the environmental performance of buildings and neighbourhoods by introducing the concept of 'integrated urban climate resilience'. The main focus of his work over the past twenty years concerns urbanisation and the integration of low-carbon technologies into the societal/behavioural context. Current research includes the emerging field of low carbon neighbourhood design combining strategies of passive and active building performance and technologies of modular prefabrication, and the adaptation of communities for climate change.

Advising Ph.D. Candidates and Post-doctoral Fellows:

Professor Lehmann has a strong ability to inspire young researchers and is considered an inspiring speaker and enthusiastic supervisor of students and Ph.D. candidates. He has successfully advised over 12 Ph.D. candidates as doctoral students to their degree (2 forthcoming), examined over 10 Ph.D. students, and chaired 6 Ph.D. viva voce examinations across Architecture and Urbanism subjects. He has supervised 3 Post-doctoral Fellows.

Steffen's research interests are in the following intertwined areas:

- Resilient urbanisation for low carbon compact cities and coastal resilience
- Green urbanism theory - Scenarios for the City of the Future
- Ideas-driven concepts for the resource-efficient city: urban infill using modular prefabrication

- Urban architectural culture and new programs for age-friendly public space
- Sustainable architecture and smart high-performance buildings
- Climate-responsive design and technology integration: transforming construction

Leadership in professional practice

Professor Lehmann has extensive experience in both: practice and the academic world, which he combines in his thinking with a deep understanding of the profession. Steffen has a long and distinguished career as an architect and urban designer (with an impressive track record as a practising architect and policy adviser) and likes to combine practice with research and teaching. Industry collaboration is one of his strengths, as shown by his past and current outreach to practitioners, policy makers, municipalities, business and citizens.

In 1993 he founded his own studio: **Steffen Lehmann Architekten Berlin, which designed and built over \$1bn in construction budget in 20 projects.** The s_Lab (Space Laboratory for Architectural Research and Design) was the research arm, founded by Steffen Lehmann to pursue a more ethical form of practice. In parallel, he established the architectural office to combine research, teaching and practice. With his own practice, he is currently working on innovative housing projects in Berlin and Stuttgart (Germany).

As a young architect, he has worked with world-renowned visionary architects **Arata Isozaki in Tokyo, and Jim Stirling in London**, before establishing his own architectural practice in 1993. With his own practice he was actively involved during the 1990s in the architectural creation of the 'New Berlin'. He was privileged to be able to **design and built significant large-scale (public and private) projects** in historically important cities and places, such as at Potsdamer Platz and at Hackescher Markt in Berlin. The s_Lab in Berlin, which he led as Founding Director for over a decade, was an interdisciplinary studio employing around 20-25 staff, based on the belief that architecture can deliver the most important innovations of our time. In the 1990s, the s_Lab was an adventurous team of architectural designers, architects, researchers, planners, digital craftspeople, urban ecologists and model-makers. Working as a lead architect on large urban development, Steffen has adopted a large practice approach concerning systems, research and modular thinking.

His project clients: Over 25 important clients, including notable institutions such as the Bundesverband Deutscher Banken, the Auswaertige Amt (German Ministry of Foreign Affairs), Deutsche Bahn AG, the Berliner Volksbank, Daimler Immobilien, and numerous others he has represented - with entities as diverse as the Senate of Berlin, the Republique de France, Manhattan Loft Corp, URA Singapore, the City of Sydney, and the Deutscher Gewerkschaftsbund (German Workers Union).

His built work was subject of two monographs published by AEDES Gallery Berlin and Junius Verlag.

Reviewer of major Funding Applications

Over the last 15 years, he has regularly been appointed as assessor for international research proposals and large grant applications. For instance, he has been asked by **leading international funding agencies** in 12 countries to give evaluations as an external assessor, such as for:

- European Commission, Brussels, for Horizon 2020 (multiple; as Expert Evaluator and as Rapporteur)
- EPSRC, UK Research Council, for Global Challenges Fund (multiple)
- British Council Newton Fund, Reviewer of Science Research Programme, UK (multiple)
- Swiss National Science Foundation, Bern
- Canada Foundation for Innovation, Ottawa; and Israel Science Foundation, Israel
- Japan Society for the Promotion of Science, Tokyo
- Research Grants Council of Hong Kong, SAR Hong Kong (multiple; regularly since 2012)
- Earth Watch Institute, Massachusetts, USA
- UNESCO, Higher Education Sector, Paris

- Australian Research Council, Canberra, as Excellence in Research (ERA) Peer Reviewer
and as regular ARC Grant Assessor for large grants (multiple; regularly since 2008)