About the Contributors

Richard Tucker has twenty years of experience as a teacher and researcher in the context of architectural education. He has over 50 publications to his name, reflecting an expertise in five interrelated areas: (1) sustainable design of urban ecologies; (2) the evaluation and perception of sustainable design; (3) teamwork in design; (4) education for the sustainable design of urban ecologies; and (5) built environment design education. Richard is a member of the Alfred Deakin Research Institute and the Centre for Memory Imagination and Invention (CMI). Richard has been a team member of grant-funded projects totalling over $1 million; eleven investigations including six as project leader. In 2007, Richard’s teaching scholarship was recognised nationally by a Carrick Institute Citation for Outstanding Contributions to Student Learning. In 2011, Richard became only the 2nd teacher in the discipline of architecture in Australia to be awarded an ALTC Award for Teaching Excellence.

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Neda Abbasi is a Research Fellow in School of Architecture and Built Environment at Deakin University. Her research interest and expertise focus on physical environments of learning and teaching i.e. planning, design and evaluation studies. She holds a Master of Architecture from the Faculty of Fine Arts, University of Tehran. Her master thesis examined adolescents’ leisure time and its impacts on their psychosocial development and applied the theories of adolescent development within a project for a cultural and recreational centre. In 2006, she started a research project in the University of Melbourne on the role of school design in adolescent identity formation. In Deakin University, she has worked on the development of a Tool for Evaluation of Academic Library Spaces (TEALS) and was the project manager on an OLT funded project on Teaching and Assessing Team Learning (2011-2014).

Tom Allen is a Design and Business Strategist with extensive experience in Europe and Australia. His work at Strategic Design Consultancy Seven Positive focusses on empowering people, organisations and enterprise to create positive futures. He is a Sessional Academic at Queensland University of Technology (QUT) and Griffith University (QCA), passionately teaching Design and Business related subjects and the value of socially and environmentally responsible entrepreneurial activity. Tom is on the Board of the Design and Emotion Society (Australia Chapter).

Susan Ang is a senior academic with the School of Architecture and Built Environment. Susan teaches architecture design and design communication and is currently leading the universal design agenda in built environment education and is involved in research, teaching and learning that is concerned with
About the Contributors

social inclusion and designing inclusive environments. Susan was born in Kuala Lumpur, Malaysia and completed her Bachelor of Architecture degree at Deakin in 1986. Susan has practised as an architect for more than fifteen years with a special interest in community engaged projects. Susan’s work is inspired by intrinsic personal transcultural heritage and identity, with aspirations for a sustainable future imbued with cultural harmony and social responsibility. Since 2011, Susan initiated and led Deakin University’s iDiDE: Intercultural Dialogue Through Design, a collaborative design programme with established international partners in Malaysia, Thailand, India, Indonesia and Sri Lanka. The program is focused upon culturally immersive collaborative learning and practice in design and is concerned with sustainable design outcomes that contribute towards preservation of humanity, diversity and dignity. Susan is involved in development aid and rural community development projects in Sri Lanka utilizing collaborative integrated sustainable community principles.

Carolyn Barnes is Academic Director of Research Training in the School of Design, Swinburne University of Technology, Melbourne, where she teaches research methods for academic and practice purposes. Her research investigates the agency and knowledge bound up in individuals and groups to address their primary needs and interests. Using social research approaches, she works in two main areas: participatory design, examining how co-creation methods can mobilise stakeholder knowledge, and knowledge transmission within practitioner networks.

Ammon Beyerle teaches design and theory, and is currently completing a PhD by creative works in Architecture, Participation and Agonism at the University of Melbourne. He is also co-Director Here Studio, an architecture practice that focuses on participatory design in public projects.

Oliver Bown is a researcher in the fields of creative computing, interactive media, interaction design and computational creativity, with a broad academic background in computing, social sciences and interaction design. He is also a practicing musician and media artist. He is senior lecturer at the Faculty of Art & Design at the University of New South Wales.

Thomas Carey is a Visiting Senior Scholar in the Office of the Provost at Kwantlen Polytechnic University, a Research Professor in the Center for Research in Math and Science Education at San Diego State University and an executive consultant for higher education systems and institutions in strategy for exemplary teaching and learning. His previous faculty roles in Canada include leading teaching and learning centres in two Canadian research universities and serving as Associate Vice-President for teaching and learning support at the University of Waterloo. Tom has also been a Visiting Professor at the University of York and the Open University (U.K.) and a Visiting Senior Scholar for the Higher Educational Quality Council of Ontario (Canada), the California State University Office of the Chancellor and the Carnegie Foundation for the Advancement of Teaching (U.S.).

Alexandra Lara Crosby is the course director of Interdisciplinary Design, in the School of Design at the University of Technology Sydney. She studied Visual Communications and International Studies, completing a PhD in 2013 on local environmentalism enacted through site-based creative community events in contemporary Indonesia. Her research explores the role of creative practices in culturally-specific forms of activism with a focus on post colonial contexts. She has worked extensively on cross-cultural projects in the Asia-Pacific region. She was co-Director of the Gang Festival (2005-2008) and in 2009...
was awarded the Ros Bower award for excellence in Leadership in Community Cultural Development by the Australia Council. In 2012 she was awarded the Creative Media Social Justice award at the UTS Human Rights Award for her work with EngageMedia and the Papuan Voices project.

**Philip Crowther** is Head of Architecture in the School of Design at Queensland University of Technology. Philip’s research focuses on design for disassembly in an architectural context. He has studied the life cycle of buildings and the sustainable reuse of building materials. Through his research, Philip developed principles of Design for Disassembly (DfD) and theoretical models for environmentally sustainable construction. Philip is also researching in design education and the development of creativity. He is interested in the ways that creativity can be fostered and assessed within a university teaching environment.

**Cristina Garduño Freeman** is an academic in the fields of digital media, architecture and heritage. She has a forthcoming book titled Participatory Culture and the Social Value of an Architectural Icon: Sydney Opera House with Ashgate, UK and in 2014 received the International Visual Sociology Association Rieger Award for an Outstanding Doctoral Thesis. Her research work has been published in some of the world’s leading international journals including: the International Journal of Heritage Studies (2010) and Architectural Theory Review (2013). In 2015 Dr Garduño Freeman co-edited Volume 27:3 of Historic Environment, a special issue titled Watermarks with Dr Ursula de Jong and in 2013 was Assistant Guest Editor for Volume 18:3 of Architectural Theory Review (2013) with Dr Naomi Stead. She is a graduate of the prestigious ‘Oxford Internet Institute Summer Doctoral Program’, which led to a collaborative publication in Nexus: New Intersections in Internet Research. Recent innovative work includes the Melbourne Lovability Index, in collaboration with Dr Fiona Gray, which seeks to measure people’s connection with place. Dr Garduño Freeman is also a multidisciplinary designer and has practiced professionally in architecture, landscape architecture and urban design, and in visual communication design.

**Paola Gavilanez** has been an interior design practitioner and educator for over 15 years. Her body of professional work includes designing at the senior level for over 30 projects and she has authored articles for trade publications and newspapers in both Canada and Ecuador. Paola’s design philosophy stems from the powerful emotional response humans have to design in nature. She believes the continued study of the principles and elements of design as they exist in nature can serve not only as inspiration but as a benchmark of quality and attention to detail. Paola obtained a Diploma in Interior Architecture and Design in Ecuador from Instituto Eurodiseño and is currently pursuing a Master of Arts in Interdisciplinary Studies at Royal Roads University with a focus on Sustainability and Communications. She is currently a faculty member in the CIDA-accredited Interior Design program at Kwantlen Polytechnic University’s Wilson School of Design and her teaching experience includes positions in Canada and Ecuador, where she taught at the Universidad de Guayaquil’s Faculty of Architecture. Paola is a Registered Interior Designer with the Interior Designer’s Institute of BC (IDIBC) and Interior Designers Canada, and has served on IDIBC’s Board of Management as both VP Education and VP Communications.

**Phil Gough** is a digital artist and designer. Phil works as a creative technologist in research, design and art contexts. Phil works visualising data using D3.js for research purposes, for scientists and non-expert users. He is a PhD candidate at The University of Sydney, employing qualitative, practice-based
research to investigate user experiences with static, moving and interactive non-expert user visualisations (or NEUVIs) using a research through design methodology. He currently is working for ACEMS at the Queensland University of Technology as a research associate, designing interactive, web-based visualisations for research and industry collaborations.

**Ning Gu** is a Professor of Architecture in the School of Art, Architecture and Design at the University of South Australia. His most significant research contributions have been made towards research in architectural and design computing. The research outcomes have been documented in over 140 peer-reviewed publications. He has been a reviewer/guest editor for various international journals including Design Studies, Automation in Construction, Architectural Science Review, IJAC and ITCon. He was visiting scholar at MIT, Columbia University and Technische Universiteit Eindhoven.

**Wayne Hall** holds a PhD from the University of Warwick and a PGCert in Learning and Teaching from the University of Plymouth. He is a Corporate Member of the Institution of Mechanical Engineers (MIMechE) and a Chartered Engineer (CEng). He has held teaching and research appointments at the University of Warwick, University of Nottingham and University of Plymouth in the UK, and at Deakin University and Griffith University in Australia. He is currently Deputy Head of School (Learning and Teaching) in the Griffith School of Engineering at Griffith University. Dr Hall’s research interests lie in the design and manufacture of lightweight and Fibre Reinforced Plastics (FRPs) and in engineering education related research. Most recently, his technical research has focused on the role of natural fibres as a sustainable alternative to man-made reinforcements in structural composites. His interest in engineering education is focused on the development and implementation of successful teaching and learning strategies for on- and off-campus (distance education) students, and on the implementation of Project-Based Learning (PBL) in the engineering curriculum.

**Ju Hyun Lee** is Senior Lecturer in the School of Architecture and Built Environment, the University of Newcastle, Australia. Dr Lee has made a significant contribution towards architectural and design research over the past 10 years in three main areas: design cognition, planning and design analysis, and design computing. His recent cognitive research, Design and Language, has a significant impact on breaking down the barriers to achieving efficient and sustainable interactions between people in design teams, particularly those in the Asia-Pacific region. Dr Lee was invited to become a visiting academic at the University of Newcastle in February 2011. His international contribution has been recognised as: Associate editor for a special edition of Architectural Science Review; Reviewer for many international journals and conferences; International reviewer for national grants.

**Anthony Mills** is Chair of Construction Management and Head of School of Architecture and Built Environment at Deakin University, Australia. He has published over 100 referred papers in international journals and conferences, and is a member of many local and international Boards related to construction, and quantity surveying. Including the Australian Council of Deans of the Built Environment and is also a founding member of the Australian National Construction Forecasting Committee. Prof Mills is world expert on construction procurement, and currently supervisors 5 PhD’s in related fields.
Gregory K Missingham is an associate professor at the University of Melbourne and has a teaching and research focus on design methods and improving teaching and learning in architecture. He has published, additionally, on human-environment relations, Chinese gardens and recently on creativity.

Adam C. Morgan is a Lecturer at the Institute for Interactive Media and Learning (IML) at the University of Technology Sydney (UTS). He wrote the UTS handbook ‘Enhancing Experiences of Groupwork: A Resource Kit for Managing and Motivating Student Groups’. Adam consults and runs workshops for academic staff on groupwork and collaborative learning. He also plays a major role supporting the use of the software SPARKPlus (www.sparkplus.com.au) at UTS. His PHD was in the area of teamwork, and he has a strong interest in collaborative learning and enhancing the student experience of groupwork.

Amber Ortlieb holds two Bachelor degrees one in Interior Design (from Brigham Young University) with the second in Education (from the University of Alberta) and a Master of Science in Consumer and Design Sciences (from Auburn University). With a focus on sustainability in the built environment, she is researching the impacts on human health and wellbeing to understand the benefits and future directions of optimal healthy interiors related to both the emotional and physical health parameters of occupants. For the past seven years, Amber has been employed in interior design education at the diploma and degree level. Recently, she joined the Interior Design faculty of Kwantlen Polytechnic University in Vancouver, BC. She is a Registered Interior Designer with Interior Designers of Canada, NCIDQ certified and a LEED Green Associate.

Michael J. Ostwald is Dean of Architecture at the University of Newcastle (Australia) and a Visiting Professor at RMIT University (Australia). Michael has a PhD in architectural history and theory and a higher doctorate (DSc) in design mathematics. He is Co-Editor-in-Chief of the Nexus Network Journal: Architecture and Mathematics and a member of the editorial boards of ARQ and Architectural Theory Review. Michael’s more than 300 published research papers cover aspects of the history and theory of geometry and design, and applications of computing in architectural analysis.

Stuart Palmer is Associate Professor of Integrated Learning in the Faculty of Science, Engineering and Built Environment at Deakin University. He completed his undergraduate degree with distinction in electronics engineering. During nearly a decade of professional practice in consulting engineering he completed an MBA in technology management. In 1995 he joined the School of Engineering at Deakin University and lectured in the management of technology for 12 years. During that time he was awarded the Australasian Association for Engineering Education McGraw-Hill New Engineering Educator Award, completed his doctoral studies in engineering management education, and completed a Graduate Certificate in Higher Education. In 2011 he was awarded an ALTC Citation for Outstanding Contribution to Student Learning. His research interests include frequency domain image analysis and the effective use of digital/online technologies in learning and teaching. More recently he has taken a role in the Faculty of Science, Engineering and Built Environment at Deakin University. He maintains a strong interest, and active involvement, in engineering education.

Traci Rose Rider is the Coordinator for the Design Initiative for Sustainability and Health, and Research Associate at North Carolina State University’s College of Design. Dr. Rider’s research has focused on the relationship between the design culture and the notion of sustainability, exploring factors
impacting environmental attitudes of designers including environmental education, learned associations and informal influences. Dr. Rider teaches courses focusing on sustainability for the Department of Architecture, including a Sustainability in Architecture Seminar and an interdisciplinary LEED Laboratory course focusing on the issues of existing buildings and operations. Her funded research projects include methods for introducing building science and health topics to middle school students in North Carolina through STEM exercises, as well as supporting the development of interdisciplinary focus areas for the NC State in the areas of Sustainable Cities. In her Extension role, Dr. Rider works with North Carolina communities that have a community development need, using participatory action research and student involvement to help facilitate the development of concept designs to help strengthen North Carolina’s communities in terms of economy, human health, and the environment.

Andrew J Scott has been practicing and teaching industrial design for two decades. His experience as a design consultant has included work in industrial design, ergonomics, corporate identity and entertainment concepts for clients such as World Expo 88, the Civil Aviation Authority, Spectra Lighting and other businesses in the Brisbane area. He is Head of Studies for the School of Design, Creative Industries Faculty, responsible for the Bachelor of Design programme, catering to 1,500 students of architecture, industrial design, interior design and landscape architecture, Bachelor of Fine Arts (Fashion) and Bachelor of Fine Arts (Interactive and Visual Design). He completed his masters (research) investigating touch screen interface design and his PhD research focuses on product attachment and personal identity. Other interests include product aesthetics, graphical literacy and information design. Specialties: Industrial design, teaching, first year education, design and identity, material culture, touch screens, information design

James Thompson is a Doctoral Candidate in the PhD in the Built Environment Program and a Pre-Doctoral Teaching Associate in the College of Built Environments at the University of Washington, Seattle, USA.

Martin Tomitsch is Associate Professor in Design, and Director of the Design Computing program at the University of Sydney. He studied and worked in Vienna, Stockholm, Reykjavik, and Paris before moving to Australia, where he currently leads the Design Lab in the University of Sydney’s Faculty of Architecture, Design and Planning. He is founding member of the Media Architecture Institute, state co-chair of the Australian Computer-Human Interaction Special Interest Group (CHISIG), and visiting lecturer at the Vienna University of Technology’s Research Group for Industrial Software (INSO).

Nicki Wragg is a Senior Lecture at Swinburne University of Technology and Swinburne Online. Her in-depth knowledge and experience in the practice of Communication Design has been recognised and awarded in seven distinct awards. At Swinburne Online, Nicki has overseen the transformation from studio-based design curriculum to delivery that is fully online. She has reimagined and implemented innovative methods that ensure the ongoing relevance of design traditions within the context of technological change within design and society.