

Contributors

Bojan Baletić is Professor of Architecture and from 2006 the Vice Rector for Master Planning and Inter-institutional Cooperation at the University of Zagreb, Croatia. He is the author of the University of Zagreb master plan and responsible for the development of the new campus areas. Between 2010 to 2012 he was a working group coordinator in the International Sustainable Campus Network. Presently he is a member of the City of Zagreb Partnership Council for Planning and Development. Baletić is a member of the Croatian Academy of Engineering as well as a number of other professional associations. He is also the editor of the *University and the City*, the first three volumes of which were published in 2007, the fourth in 2010, with several more volumes in process. At the Faculty of Architecture he teaches the digital design course. He served twice as Vice Dean and was responsible for curricula reform. From 2005 he was a member of the working group for architectural education at the Architectural Council of Europe. He was also a member of the working group for education and a member of the working group for international relations at the Croatian Chamber of Architects. Baletić is the author of architectural projects and multimedia presentations. He has published over 70 scientific and professional articles. In 2005 he received recognition for the promotion of international cooperation in the scientific, artistic and educational fields from the University of Zagreb.

Tom Becker has been Research Associate at the Geography and Spatial Planning Research Centre at the University of Luxembourg since 2008. He is in charge of the Cellule Nationale d'Information pour la Politique Urbaine (CIPU – National Information Unit for Urban Policy). His research interests include urban policy and urban planning in Luxembourg and Europe, urban policy transfer as well as integrated and sustainable urban policies. Becker holds a Master's degree in Social Sciences with a major in Human Geography from Umeå Universitet, Sweden and a Bachelor's degree in History from Queen Mary University of London, UK.

Tom Berkhout is a PhD Candidate in Resource Management and Environmental Studies at The University of British Columbia, Canada.

His dissertation is concerned with assessing how British Columbia's energy sector is trying to steer transformative levels of energy efficiency and conservation in the built environment over the next 20 years. For his Master's degree in Environment and Resource Studies at the University of Waterloo he researched the factors that led firms to voluntary purchase premium-priced 'green' energy in Ontario, Canada. Berkhout has also contributed to several research projects including a review of intentional societal level transitions towards sustainability and a multi-jurisdictional comparative study of the motivations and methods of businesses to participate in green power markets and green power policies. Prior to starting his graduate studies, he completed his Bachelor of Arts in Management Accounting at the University of Waterloo and managed a small business in Canada's tourism sector.

Ann Campbell is Manager of Communications for The University of British Columbia Sustainability Initiative (USI), Canada. Her work involves conceptualizing, implementing and managing a full range of communications efforts designed to support the university's reputation as a local, national and international leader in sustainability. Recent projects include the opening of the Centre for Interactive Research on Sustainability and the Bioenergy Research and Demonstration Facility as well as the successful application to the International Sustainable Campus Network for the Excellence in Integration Award. Campbell holds a Master's degree in Education from the University of Toronto.

Alberto Cayuela is Associate Director of The University of British Columbia Sustainability Initiative (USI) and the Centre for Interactive Research on Sustainability (CIRS), Canada. He manages the process of integrating academic and operational sustainability on campus. He is responsible for the planning, implementation, budgeting, reporting, finance and administration functions of the USI and CIRS. Cayuela has a wealth of experience in sustainable building and renewable energy projects garnered in the private sector, including his last position as senior project manager with Stantec Consulting. During his 13-year tenure at Stantec Cayuela managed the planning, implementation and delivery of complex capital projects and high performance buildings. He has a strong background in front-end project planning and project controls and significant expertise in project management best practices, project organization and governance, stakeholder management, and project performance tracking and reporting. He was Program Manager of CIRS, responsible for project planning, implementation and delivery of the facility. He is a Professional Engineer (Civil), Association of Professional Engineers and Geoscientists of British Columbia (APEGBC), Project Management

Professional, Project Management Institute (PMI), LEED Accredited Professional, US Green Building Council (USGBC), Cascadia Green Building Council Board Member and Past President, Society of Project Management Professionals of Greater Vancouver.

Shuqin Chen is Assistant Professor and Director Assistant at the Research Center of Green Building and New Energy, in Tongji University, China. She has been engaged in research in the field of building energy efficiency and renewable energy for many years. As Secretary of the China Green University Network, Chen is responsible for and participates in important research related to green campuses, such as the evaluation methodology development of Green University construction in China, and the compilation and amendment of the national and local technical guideline of campus building energy monitoring platform. She is also the key researcher in green campus construction in Tongji University, particularly in international cooperation. She has presided over and participated in dozens of international projects, Japanese national projects, US projects and Chinese provincial and national projects, which represent the world's most advanced level in the field of building energy conservation, and has published more than 20 papers as first author. She did a PhD jointly administered by Hunan University in China and Tohoku University in Japan. She has done postdoctoral research for two years at Lawrence Berkeley National Laboratory in the United States.

Marianne Dalbro is Environmental Controller and Coordinator of Environmental Audits at the University of Gothenburg, Sweden. She is an environmental scientist with natural science as a base but with a broad interdisciplinary focus and environmental management systems and environmental legislation as a speciality. Dalbro has worked with implementation of environmental management systems both at faculty and university levels. She has participated as an educator for the Swedish Environmental Protection Agency within environmental legislation. Dalbro has also been project manager for the development of a handbook in environmental management systems for Swedish agencies, commissioned by the Swedish Environmental Protection Agency.

James Evans is Senior Lecturer in Geography in the School of Environment and Development, University of Manchester, UK. His research explores the relationship between knowledge and place, focusing specifically on the ways in which environmental knowledge is produced and applied. These ideas have been developed through an Economic and Social Research Council (ESRC) postdoctoral fellowship on urban political ecology at the University of Birmingham, the ESRC-funded 'Rescue Geography'

walking methodologies project, through to current work that explores the role low carbon laboratories are playing in establishing transition pathways. Evans has published widely on urban environmental governance, with over 30 peer-reviewed papers and two authored books in the field, and set up and directed the interdisciplinary Master's degree in Environmental Governance at the University of Manchester. He has held fellowships at the University of California at Los Angeles (UCLA) Centre for Sustainable Urban Systems and Volkswagen Foundation, and is an associate research fellow of the Manchester Architecture Research Centre. He has also worked with a range of external organizations, including the United Nations, Arup and the UK government either on projects or in a consultancy capacity, and holds a long-term interest in developing collaborative and interdisciplinary research styles.

Markus Hesse is Professor of Urban Studies at the University of Luxembourg, Faculty of Humanities, Geography and Spatial Planning Research Centre. With an academic background in geography and spatial planning, his research focuses on urban and regional development, mobilities and global flows, metropolitan policy and governance, and spatial discourses and identities. His research projects cover developments and conflicts in Luxembourg and the Greater Region, Western Europe and North America. Hesse's recent publications include *Cities, Regions and Flows* (2012, co-edited with Peter V. Hall) as well as a variety of peer-reviewed articles on re- and sub-urbanization, metropolitan regions and port cities. He is an elected member of the German Academy of Spatial Research and Planning (ARL), member of the Association of American Geographers (AAG), fellow of the Royal Geographic Society (RGS) with the British Institute of Geographers and board member of the Benelux Association of Transport Researchers (BIVÉC-GIBET). Hesse serves as a member of the editorial board of the *Journal of Transport Geography* and *European Spatial Research and Policy* and is co-editor of the *Transport and Mobility Series* (with Richard D. Knowles).

John Holmberg is Professor at Chalmers University of Technology, Gothenburg, Sweden, where he holds the position of Vice President. He also holds a United Nations Educational, Scientific, and Cultural Organization (UNESCO) Chair in Education in Sustainable Development. Holmberg is a member of the steering committee for the Global University Partnership for Environment and Sustainable Development (GUPES), member of the UNESCO expert panel for the UN decade for Environmental Sustainable Development and chairman of the jury for the Gothenburg Award for Sustainable Development. As Vice President he is responsible for transforming the whole Chalmers University of Technology in line with its vision:

'Chalmers for a sustainable future'. He is also active in developing the Swedish West Coast region through collaboration between academia and public and private sectors. Holmberg's main research interests are sustainable consumption and wellbeing, innovation, energy efficiency, industrial ecology, decoupling, back-casting, principles and indicators for sustainability and education for sustainable development. Currently, he is co-directing the project 'Wellbeing in sustainable cities' at Mistra Urban Futures.

Mikala Holme Samsøe is an architect from the Royal Danish Art Academy of Fine Arts. Her focus is on educational buildings and campus development and she has conducted several international studies of the campus and learning environments. She specializes in the strategic planning aspects of architecture and has obtained an international Master's degree in Leadership and Innovation from Copenhagen Business School. Holme Samsøe has served as a public client representative at the Danish University and Property Agency where she was responsible for the initial and programming phases of large university building and planning projects in Denmark such as Science City North Copenhagen. Furthermore, she has conducted studies of campus environments as an inspiration for Danish universities and has a large international experience with how the physical framework can help to meet the challenges of knowledge institutions. Holme Samsøe contributes with this knowledge as an editor of books and articles about campus planning and was recently a visiting project manager at the National University of Singapore. In addition, she has experience as a lecturer and acts as a judge in Danish and international competitions. Holme Samsøe is currently a key figure in the development of Henning Larsen Architects' new office in Munich, Germany, a large Scandinavian architectural company focusing on sustainable architecture for learning, work and culture.

Ying Hua is Assistant Professor in the Department of Design and Environmental Analysis at Cornell University, USA. She co-directs the International Workplace Studies Program and is a faculty Fellow of the David R. Atkinson Center for a Sustainable Future at Cornell. With an architecture background, Hua's research contributes to the development and evaluation of strategies for the design, operation and management of buildings to mitigate the risks and consequences of a changing climate. Two main research areas are human behaviour and experience in the built environment, and building sector stakeholder interaction and impact on delivered building performance. She actively participated in the development and implementation of Cornell University's Climate Action Plan. Since 2010, she has been co-chairing the Workgroup on Buildings and their sustainable performance for the International Sustainable Campus

Network (ISCN), moderating a global conversation among representatives of universities on the topic of campus building performance and their connections to research, education and lifestyle shaping. Hua is an appointed member of the China Green Building Council, committed to promoting sustainable building practice and education in China.

Jaan-Henrik Kain is Associate Professor in Urban Transformation and Planning Processes at Chalmers Architecture, Chalmers University of Technology, Gothenburg, Sweden. Since 2010 he has been Research Director at Mistra Urban Futures, a centre for sustainable urban development located in Gothenburg, with interaction platforms also in Cape Town, Manchester, Kisumu and Shanghai. Kain's primary area of research is the underlying mechanisms that support or hinder sustainable urban development. A main point of departure is to see cities and urban regions as constructed of different interlinked urban structures (for example, transport networks, telecommunications, urban green housing) and where each such structure, in itself, is made up of various subsystems (such as institutions, physical structures, regulation, nature and users). As a researcher anchored in the fields of architecture and planning, he has been involved in numerous action-oriented research projects, involving facilitation of multi-stakeholder learning processes in support of positive urban change. Kain is also currently coordinating the Nordic Master's programme Sustainable Urban Transitions.

Ann Kildahl was appointed as the first full-time Sustainability Manager at the University of Hong Kong (HKU) in 2008. In this role she is working closely with the university's senior management, facilities team and other stakeholders to develop a comprehensive sustainability programme for the university. She previously served as Deputy and Acting Executive Director of the Asia Society Hong Kong Center, where she was responsible for developing multi-level programming and was part of a small team responsible for a landmark historic preservation/adaptive re-use project at the site of a nineteenth-century British military installation, now home to the Asia Society. Since joining HKU, Kildahl has spoken frequently on sustainability issues for HKU classes and student groups, visiting delegations and conferences in Hong Kong and overseas. She is a graduate of Smith College (BA) and Columbia University (MIA) and is currently pursuing a PhD in Education at HKU.

Hisashi Komatsu has been Associate Professor at Nagoya University, Japan since 2001. He was engaged in Nagoya University's campus planning from 1992 to 2001. His major interest is the planning in architecture, especially community-based planning. Some of Komatsu's projects have

won awards from Japanese public institutes. He is an original member of the campus planning and management committee established in the Architectural Institute of Japan (AIJ) in 2001, and one of the co-authors of the books that the AIJ have published as a result of discussions on campus planning and collaborative works in universities and communities. Komatsu obtained Bachelor's, Master's and Doctorate degrees in Engineering in 1990, 1992 and 1999, respectively, all conferred by Nagoya University.

Ariane König is Head of Sustainable Development and Senior Researcher at the University of Luxembourg. Her research and implementing activities concern the co-creation of knowledge for transformation of sustainable development with a focus on integration of education and research with the practices of campus operations, planning and civic engagement projects. Before coming to Luxembourg she was employed at the universities of Harvard and Oxford, where over a seven-year period she conducted research and taught postgraduate and executive training courses, focusing on governance of new technologies and risk. Prior to this, König was regulatory affairs manager and scientific affairs coordinator for Europe/Africa in a leading multinational life science corporation. She has also worked as an independent scientific consultant for the Organisation for Economic Co-operation and Development (OECD), the European Commission and European Union (EU) research consortia. König gained her Bachelor's, Master's and PhD degrees in Biochemistry from Emmanuel College, University of Cambridge.

Naomichi Kurata, an architect and planner, is Professor of Urban Design and currently serves as Chair of the Department of Urban Design and Planning in the School of Architecture, Kogakuin University, Japan. He has also been in charge of campus planning for Kogakuin University. Between 1976 and 1979 Kurata was at the University of California Berkeley, also engaged in campus planning as a member of the Campus Planning Study Group. He has been a member of the Campus Planning Committee at the Architectural Institute of Japan (AIJ) since 2001 and has served as chair of the Campus Planning Committee since 2008. He is a co-author of several books on campus planning and management published by the AIJ. Kurata was granted Bachelor's and Master's degrees in Engineering in architecture from Waseda University in Japan. He was also conferred a Master's in Architecture (1977) and an MCP (1980) from the University of California at Berkeley.

Sarah Liao is currently the University of Hong Kong's (HKU) Senior Advisor to the Vice Chancellor on Sustainability and the Acting Director

of the Kadoorie Institute at HKU. She has been a member of the Chinese Council of International Cooperation on Environment and Development since 2009 and is on the Board of Trustees of the Environmental Defence Fund. Liao is the former Secretary for the Environment, Transport and Works of the Hong Kong SAR government when from 2002–07 she managed a budget of over 40 billion HK dollars per annum and adopted sustainable development strategies in her policies to achieve a balanced approach in social and economic development while protecting the environment at the same time. Liao also encouraged public engagement in building strong community awareness and encouraged the use of new technologies wherever possible. Prior to her government appointment she was in the consultancy business and amongst her many projects she was engaged as the environmental consultant to Beijing's Olympic Bid and Organizing Committee. Liao is a Fellow of the Royal Chemistry Society, HKU and the Hong Kong Institute of Engineers. She is a member of the Justice of Peace and was awarded the Gold Bauhinia Medal by the Hong Kong SAR government.

Ullika Lundgren is Environmental Controller at the University of Gothenburg, Sweden and Environmental Coordinator at the Faculty of Science. She is a trained marine biologist and started to work early in her career with environmental issues in businesses and organizations. When the Swedish government in the late 1990s commissioned 40 state authorities to implement an environmental management system she led the Tjärnö Marine Biological Laboratory as a pilot to certificate according to ISO 14001, the first unit at the University of Gothenburg to reach this goal. Since 2006 the whole of the University of Gothenburg is certified according to ISO 14001 and registered in the Eco Management and Audit Scheme (EMAS). Lundgren works with operations with faculty as well as with strategic planning for environmental concerns. She has been appointed technical expert in the Swedish Standards Institute Technical Committee (SIS/TK 305/AG3) for the international assignment to revise the standard ISO 14001 during 2012–14.

Bart Meehan recently retired as Associate Director of Facilities and Campus Operations at the Australian National University. As part of that role, he was responsible for the establishment and ongoing implementation of the University Environmental Management Program. He has also been involved in a number of international projects related to campus environmental management, in particular as team leader of the International Alliance of Research Universities Sustainability Group and co-chair of the International Sustainable Campuses Network Working Party reviewing the development of sustainable infrastructure and opera-

tions. Meehan is the author of several peer-reviewed papers on sustainability and is currently a Visiting Fellow at the Fenner School of Sustainability and Environment.

Eddi Omrcen is Environmental Manager at the University of Gothenburg, Sweden. He has conducted postgraduate studies and research in the field of development and implementation of environmental management systems (EMS), environmentally adjusted product development, as well as project management, temporary organizations and intrapreneurship. Omrcen has been responsible for the development and implementation of an EMS at the university. In January 2006 the whole of the University of Gothenburg was certified according to ISO 14001 and the Eco Management and Audit Scheme (EMAS). He has developed courses on environmental business, environmental management and project management at undergraduate and Master's levels. Omrcen also has extensive experience as a consultant in these fields. He has a Bachelor's degree in Business Management from the School of Business, Economics and Law, University of Gothenburg.

Takao Ozasa is Associate Professor at Hokkaido University, Japan. He worked as an architect in Tokai Kogyo Co. Ltd, Tokyo from 1983 to 1993 and engaged in architectural design and planning and regional development. He moved to Hokkaido University, Department of Architecture, Faculty of Engineering in 1993. He has Bachelor's and Doctoral degrees from Hokkaido University, the latter acquired in 1999 with research on the role of open space in the campus planning system. Since 2006 Ozasa has been Associate Professor and since 2010 has served as Director of the Office for Sustainable Campus in Hokkaido University. His areas of research are urban design, urban planning, campus planning and architectural design. He is a founding member of the Campus Planning and Management Committee established in the Architectural Institute of Japan (AIJ) in 2001, and co-author of several books published by the AIJ about campus planning and collaboration with universities and communities.

Merritt Polk is Associate Professor in Human Ecology at the School of Global Studies, University of Gothenburg, Sweden. Since the mid 1990s she has worked extensively with practitioners in the field of gender mainstreaming and transport with a focus on travel patterns, attitudes and policy and applied this work to the interactions between gender equality, sustainable transportation and climate change. During this time she has also taught diverse courses such as sustainable cities, sustainable development and conflicts, as well as interdisciplinary and transdisciplinary methods in human ecology. Her most recent research is on urban plan-

ning with a focus on multi-level stakeholder processes and the framing and implementation of sustainable development. For the last six years Polk has worked on developing transdisciplinary methods for sustainable urban development. Since 2010 she has been Research Director at Mistra Urban Futures, a centre for sustainable urban development located in Gothenburg, with interaction platforms also in Cape Town, Manchester, Kisumu and Shanghai. Her work at the centre focuses on developing collaborative approaches to transformative urban planning through the combination of interdisciplinary and cross-sector knowledge and expertise.

Christopher Powell is Director of the Sustainable Energy and Environmental Initiatives at Brown University, USA. As Chairperson for the university's Energy and Environmental Advisory Committee, he is responsible for developing and implementing Brown's Energy Environmental Mission, including Brown's Greenhouse Gas Reduction Goals receiving the International Sustainable Campus Network's 2011 Excellence Award. Additionally, Powell is responsible for managing Brown's Energy and Utilities Budget balancing the needs of lowest cost energy with budget certainty and managing a \$27 million Campus Wide Energy Efficiency Investment Program, which has allowed Brown University to reduce its carbon footprint to levels well ahead of its goals. An integral feature of this Energy Efficiency Investment Program, Powell has created a licensed, web-enabled energy efficiency project evaluation, management and reporting tool as described in his chapter. He is a member of Rhode Island's Energy Efficiency and Resource Management Council, providing direction to the state's Energy Efficiency Programs. He is a board member of The Energy Council of Rhode Island (TECRI), which is responsible for ensuring the state proactively minimizes the cost of energy to Rhode Island's electric and natural gas consumers through effective energy and energy efficiency policies. He is a member of the steering committee for the City of Providence Emerald Cities Energy Efficiency Initiative, an effort to create green jobs through deep energy efficiency improvements throughout the city. Powell has more than 25 years in the energy and energy management and greenhouse gas management fields. He has a Bachelor's science degree in Mechanical Engineering, a Master's science degree in Energy and Technology and an MBA.

John Robinson is Associate Provost, Sustainability at The University of British Columbia, Canada and Professor at UBC's Institute for Resources, Environment and Sustainability and Department of Geography. He is responsible for leading the integration of academic and operational sustainability on UBC's Vancouver campus. In this capacity he directs the UBC Sustainability Initiative (USI) and provides leadership for UBC's

academic, research and operational activities and programmes in sustainability. Robinson also represents UBC's sustainability activities to the broader local and international community. His research focuses on the intersection of climate change mitigation, adaptation and sustainability; sustainable buildings and urban design; the use of visualization, modelling and citizen engagement to explore sustainable futures; creating partnerships for sustainability with the private, public, non-governmental and research sectors; and, generally, the intersection of sustainability, social and technological change, behaviour change and community engagement processes. Previously a Fellow of the Trudeau Foundation, he has been a Lead Author in the last three reports of the Intergovernmental Panel on Climate Change, which won the Nobel Peace Prize with Al Gore in 2007. In 2012, *Canadian Geographic* magazine named Professor Robinson Canada's Environmental Scientist of the Year and he was the recipient of the Metro Vancouver Architecture Canada Architecture Advocacy Award.

Hongwei Tan is Professor and Executive Director of the Research Centre of Green Building and New Energy at Tongji University, China. His main research interests are building environment and equipment systems, building energy management, urban and HVAC CFD simulation technology. Tan has presided over more than 30 national and provincial projects, with a long history of international cooperation between Japan, Europe, the USA, and other scientific research institutions and enterprises. In the field of building energy management he was in charge of the initiatives of Tongji University campus, and presided over the demonstration project of the campus building energy monitoring platform funded by the Ministry of Housing and Urban and Rural Development. He has worked as a national expert and as a project leader. Tan chiefly edited a series of national guidelines on the construction and operation of the campus building energy regulatory system. He holds Bachelor's, Master's and PhD degrees in Engineering.

Takeshi Ueno is trained as an architect and is Professor in the Department of Architecture and Director of Campus Planning Office at Chiba University, Japan. His major architectural design works are university buildings and cooperative housing. From 2008 he has engaged in area management of the Kashiwanoha Area, Kashiwa City as the Vice Manager of the Urban Design Center Kashiwanoha. From 2012 he has served on an advisory board of the Ministry of Education for methods of the National University Campus Planning. Ueno is also one of the original members of the Campus Planning and Management Sub-committee established in the Architectural Institute of Japan (AIJ) in 2001, and one

of the co-authors of the books that the AIJ have published as a result of discussions on campus planning and collaborative works in universities and communities. He completed his graduate degree in Architecture at the University of Tokyo in 1989.