



University of Salford
A Greater Manchester University

Built and Human Environment Without Walls

International activities of the School
of the Built Environment – 2009/2010



Edited by Professor Dilanthi Amaratunga and Dr Richard Haigh



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David Baldry, Deputy Head of School, helped with editing the report and provided his own input towards the school's international portfolio of activities, and has undoubtedly helped in completing this task successfully. Many thanks.



Foreword

“All good universities combine local and regional research and engagement with a strong international presence, and the School of the Built Environment is at the heart of the University of Salford’s networks and partnerships which stretch across several continents. The research projects, presentations and partnerships detailed in this report are testimony to a vibrant and ever-developing web of research and innovation in the built and human environment that is yielding impressive results. This work is also evidence for the value of a cosmopolitan community of scholars, drawn from a wide range of backgrounds, who are together bringing new insights to bear on key challenges of our age.”



Professor Martin Hall
Vice Chancellor, University of Salford

“The School of the Built Environment has a long tradition of international engagement and thought leadership. Built over more than two decades now, this current report demonstrates our current position in relation to international activity and internationalisation. It is a manifestation of the wide range, both in scope and intensity, of dimensions and perspectives of international activity. In isolation, many of the activities and outputs/outcomes presented here do not present the whole picture. It is the combination and coherence of them that demonstrate a formidable environment of innovation, global research and scholarship arenas and a virtual knowledge exchange network of unprecedented capability. Our friends, academic partners and students across the globe are a testament of the need for any higher education institution and indeed higher education itself to address global issues such as sustainability, regeneration and disaster management. The report, although presenting the School’s activities, also represents the many stakeholders that the School engages with and it is very much a tribute to the international community. Furthermore, much of what is presented is very often enabled by intense local engagement and student participation at all levels including the effective and efficient efforts of administration staff. A big thank you goes to everyone in the School, both past and present.



Professor Mike Kagioglou
Head of School, School of the Built Environment



Introduction



The rationale for internationalisation lies in an understanding of the universal nature of the advancement of knowledge. While knowledge is often contextual, the advancement of human knowledge that is based on the common bonds of humanity is arguably a global enterprise¹. In the case of higher education, "Internationalisation at the national, sector, and institutional levels is defined as the process of integrating an international, intercultural, or global dimension into the purpose, functions or delivery of postsecondary education"². Internationalisation means creating an environment that is international in character—in teaching, in research, in outreach. It means exposing students, for example, to knowledge about and from different parts of the world, and it means preparing them to communicate and work with people from other cultures and countries³. It is therefore, "an on-going, future oriented, multi-dimensional, interdisciplinary vision that involves many stakeholders working to change the internal dynamics of an institution to respond and adapt appropriately to an increasingly diverse, globally focused, ever changing external environment."

This complex definition suggests that there are many dimensions of internationalisation and that it is a dynamic process of institutional change. This is what we, at the School of the Built Environment, are trying to achieve: global brand penetration is not just about being acknowledged as "global" by international academic peers and by national policy makers, but also by the general public. This is in line with the goal set out in the University of Salford's Strategic Plan 2009/10 to 2017/18: "To foster a strong embedded culture of internationalism, which encourages our staff, students and stakeholders to view our world from both a local and a global perspective, extends our international engagement, contributes to our teaching and research goals, extends our influence and reputation - to create a more powerful and recognised brand for the University of Salford".

The School of the Built Environment is dedicated to sustaining and encouraging progression with its international partners with whom it works very closely on several dimensions. To be successful we acknowledge the need to ensure that there is a comprehensive approach and that this becomes part of our philosophy, embedded in our core areas of delivery and not an entirely separate strategy or series of activities. Internationalisation needs to have parameters if it is to be assessed, and successful assessment lies only in an understanding of the particular contexts in which it occurs. In line with the University's Strategic Plan 2009/10 to 2017/18, the specific benefits and outcomes of this approach include:

- Increase the recognition and reputation of the School as an international player
- Increase output of internationally recognised research
- Grow international strategic partnerships and alliances
- Improve the student experience
- Offer high quality education for global citizenship
- Increase demand for graduates nationally and internationally
- Grow international student recruitment both on and off campus

It highlights summaries of international activities pertaining to 2010 and is based on extensive data provided by colleagues in response to a data collection exercise that was undertaken in respect of the following themes:

- Teaching partnerships
- Internationalisation of the curriculum
- Invited speeches, lectures & session leaderships
- International research projects and collaborations
- International conferences, workshops and other events
- Appointments to international roles, networks and committees
- Strategic international partnerships
- International student recruitment
- Publications co-authored with international

- partners
- External accreditations and awards
- Media, innovative and creative activities
- Industry engagement
- Staff and student exchanges
- Appointments as external advisors and reviewers
- Editorship of international journals

In this context, this internal report gives examples of our internationalisation activity and identifies key areas for action.

The report is divided into several sections. It begins with an introduction that presents the background about this initiative. Key themes which were used as the basis for data collection are discussed in the second section with key examples listed. Detailed activities pertaining to each of these themes that were carried out by staff of the School of the Built Environment are listed in the Annex, based on the information that we received. The final part summarises the suggestions and also discusses the work that should be carried out in the near future.



Professor Dilanthi Amaratunga
Associate Head of School (International),
School of the Built Environment

¹ Yang, R. (2002). University internationalisation: its meanings, rationales and implications. *Intercultural Education*, Vol. 13, No. 1, 2002, pg 81 – 95

² Knight, J. (1997) Internationalisation of higher education: a conceptual framework. In: Knight, J. & De Wit, H. (Eds) *Internationalisation of Higher Education in Asia Pacific Countries*. Amsterdam: EAIE.

³ Peige, R.M. (2005), *Internationalization of Higher Education: Performance Assessment and Indicators*



Our Principles



A working definition

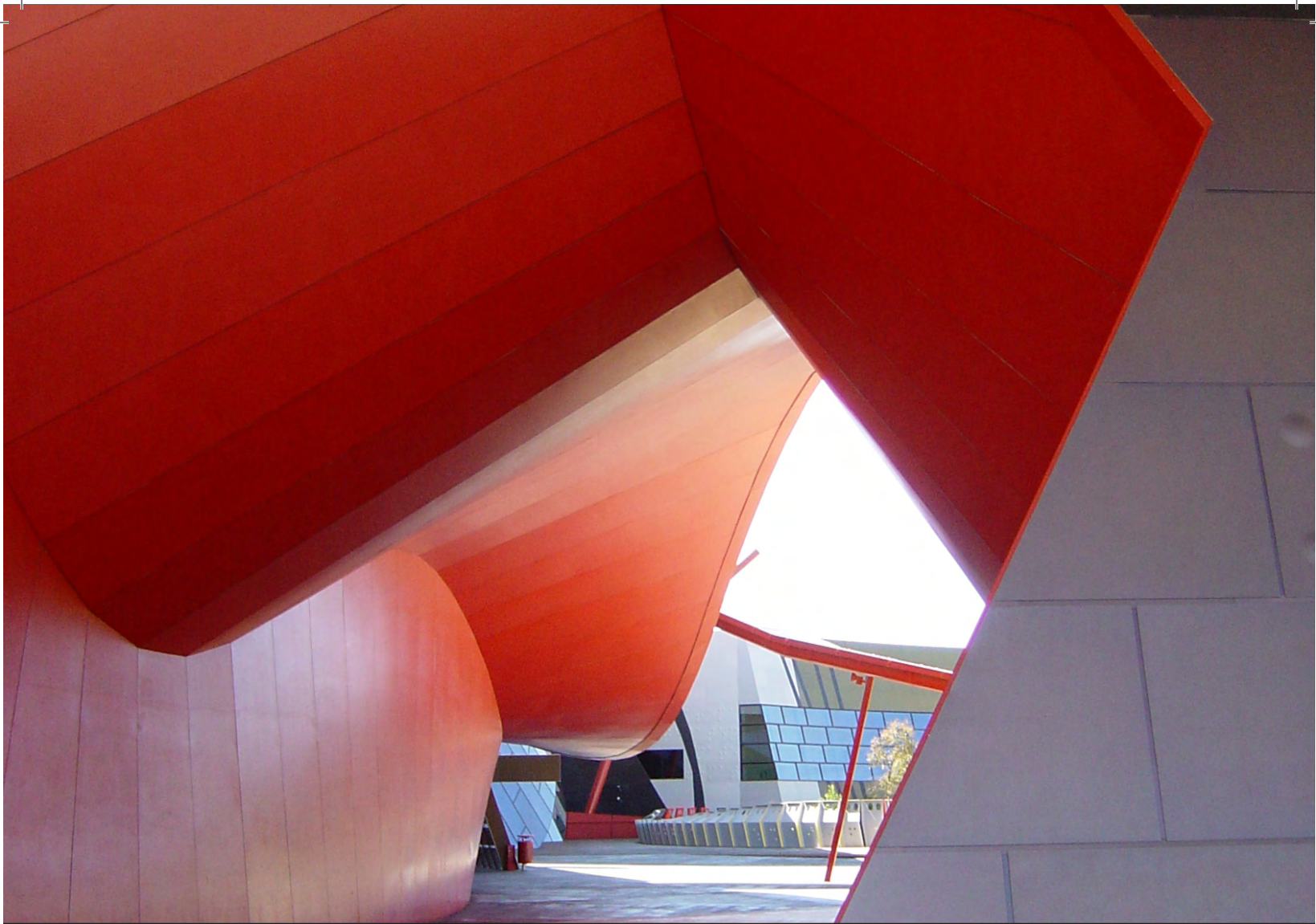
'Internationalisation of higher education is the process of integrating an international/intercultural dimension into the teaching, research and service functions of the institution. This definition understands internationalisation as a process, as a response to globalisation... and as including both international and local elements'⁴. In line with this broad definition, our principal themes that unite and flow through our wider goals include: Global Citizenship - ensure our students are equipped for the global knowledge economy and are given the skills to become global citizens and ambassadors of the future; and Partnerships - grow and strengthen international partnerships to increase the profile, sphere of influence, strengthen intellectual and research capacity and increase the number of students studying both on and off campus⁵. In line with this, we work along a deeper, more coherent and more visible international strategy, and we pursue internationalisation as a portfolio of activities which contribute to the enhancement, sustainability and quality of the academic provision characterised by significant presence in a few strategic locations around the world. Our approach at home consists of fostering an international perspective and

ethos throughout our community, activities and infrastructure. We consider internationalisation as a process, drawing from and informed by our strategic positioning: we articulate our values to be clear about why we are doing things; focus and build on areas of strength; aim for greater coordination; recognise internationalisation is about 'making friends' as well as the financial aspects of sustainability; and, take a long term view but move on a number of small initiatives that will consolidate our position.

Being international is an intrinsic part of the School's operation and ambition, a point that is ably demonstrated by the international composition of our staff and students. There is a diverse, international student body. At present, the School's international students constitute approximately 10% (undergraduate), 50% (postgraduate taught) and 90% (postgraduate research) of the total student population. Similarly, attracting and keeping the very best staff from around the globe is essential for an international university. Our academic staff include colleagues from other countries who have recognised the opportunities offered by a global institution.

⁴ Knight, Jane, and de Wit, Hans (Eds.). 1999. *Quality and Internationalisation of Higher Education*. OECD, Paris.

⁵ University of Salford Strategic Plan 2009/10 to 2017/18



Themes



Teaching partnerships

The School is developing teaching partnerships, joint programmes and other new forms of collaboration with international Higher Education Institutes to build a coherent platform of academic programme offerings. These partnerships provide the ability to grow our international student recruitment and offer high quality education for global citizenship. The University also benefits from the potential for shared academic infrastructure and services in such areas as library services and information and communications technology. A list of the School's current teaching partnerships and joint programmes is included in the Annex.

MSc IT Management in Engineering, Damascus University, Syria

This project has produced a regionally recognized master degree programme in the field of IT management in construction to improve the higher educational quality of this field and to supply the construction industry in Syria and the region with a force of skilled construction engineers and managers. The programme was designed to meet the needs of individuals and organizations in managing performance in fast moving commercial business environments. Its focus was on managing IT to maximize the delivery of strategic business benefits, including enhanced performance through optimal integration and interoperability of both Information Systems (IS) and Information Technology (IT) resources.

The project was under the leadership of the School of the Built Environment, but also enjoyed the benefits of contributions from European partners, including institutions in France and Denmark.

The objectives of the programme were:

- To equip students with a thorough knowledge and deep understanding of strategic IT management and its relationship to and its impact upon business performance;
- To enable students to develop and implement more effective business process improvement techniques using information modelling tools;
- To allow students to creatively exploit and implement advanced information technologies to support business processes, such as visualization, artificial intelligence, etc;

The project was successfully completed extending beyond the stated objective, on time, but below the allocated budget. It also laid the foundation for collaboration work between the partners for future projects.

The programme has its own IT laboratory for the benefit of the full time students, as well as those on distance learning options where links with the University of Salford are well established.

Internationalising the curriculum

The School is actively working to embed an international and intercultural dimension into its teaching, research and service. The School recognises that staff and students who learn and work in an environment where diverse perspectives are fostered and appreciated, become better critical thinkers, better communicators, better problem-solvers and better team players. Preparing staff and students to view change in the built environment as positive, and to manage it effectively in a global context, is the central aim of this internationalised curriculum. The School is also developing affiliations with foreign Higher Education Institutes to deliver its programmes overseas, thereby extending the global reach and cultural exchange. Specific efforts to embed an international perspective into the School's portfolio of activities include: the instigation of a requirement for new programmes to consider an international prospective as part of the approval process; and the development of an affiliation with a Sri Lankan institute – the Colombo School of Construction Technology – to deliver the School's BSc (Hons) Quantity Surveying programme.

Invited speeches, lectures and session leaderships

The School's outstanding international research and enterprise profile is evidenced by members of its academic community being invited to deliver over sixty speeches and presentations during international conferences, events and visits in 2009/10. These invitations recognise the School's position as a global leader in research and as a catalyst for positive change, both within the built and human environment and at its many interfaces with the natural environment, engineering, health and the social sciences. These opportunities provide the means to disseminate the School's research to international policy makers, industrialists and academics. They generate impact and enable the School to play a leading role in shaping the built and human environment towards green and sustainable futures, incorporating high quality living and social responsibility. A list of invited speeches and lectures delivered by members of the School's academic staff in 2009/10 is included in the Annex.

International research projects and collaborations

The School maximises the impact of its research base by identifying and coordinating powerful research collaborations across Europe, Asia, North America, Africa and Australasia. These collaborative research programmes raise the recognition and reputation of the School as an international player, while simultaneously enabling the School to increase its research capacity to deliver world class research outputs. The School works with other academic groups at leading Universities who share its values and desire to deliver applied research and innovation across and beyond the built environment disciplines. By working closely with these international partners, the School has obtained funding for international research from a wide variety of sources, including the European Union, UK and other national research councils, and private enterprises. A list of the School's research collaborations and projects undertaken in 2009/10 is provided in the Annex.

Collaborative research project with Patuakhali Science and Technology University, Bangladesh

CEREBELLA – Community Engagement for Risk Erosion in Bangladesh to Enhance LifeLong Advantage – was recently funded by the British Council under their INSPIRE scheme. This will facilitate a long term strategic partnership between the School of the Built Environment's Centre for Disaster Resilience and Patuakhali Science and Technology University, Bangladesh. The partnership aims to share skills, knowledge and experience on climate change and disaster management.

The Salford academic team, including Professor Dilanthi Amaratunga, Dr Richard Haigh, Dr Udaya Kulatunga and David Baldry, will work closely with the Bangladeshi institution to: carry out hazard, vulnerability, and risk analysis; develop risk response strategies for disaster risk reduction and climate change adaptation in Bangladesh; make recommendations for urban safety planning based on disaster risk and climate change impacts; update and develop curriculum on disaster risk reduction and climate change adaptation; and, facilitate staff exchange and training programmes to enhance the capacity of partner institutions. It is hoped that the initial grant will facilitate the development of an effective and sustainable partnership between the School and the Bangladeshi partner institution.

Collaborative research project with Tsinghua University, China

The Fellowships for Excellence programme is funded by Department of Business, Innovation and Skills (BIS), which forms a central part of the UK-China: Partners in Education programme and, so far, has enabled over 30 outstanding post-doctoral researchers to study and conduct cutting edge research for up to one year at a Chinese university or research institution. Dr Song Wu of the School of Built Environment was awarded the Fellowship in 2010 to collaborate with Tsinghua University, China in the area of Information Technology (IT) in construction and civil engineering.

The project aimed to introduce and implement nD modelling technology for sustainable building design in China. nD modelling technology was developed under the EPSRC platform grant 'from 3D to nD modelling', which combined computer modelling, visualisation and simulation techniques, enabling the results of design ideas to be 'visualised' in advance, so that people can actually 'see and try' suggested building designs by walking through and around them.

The Chinese research group at Tsinghua University has extensive research experience in the BIM area, they are keen to develop their research further to incorporate a decision support process similar to nD modelling technology. Furthermore, the Chinese research group has successfully implemented their findings on real life projects (e.g. the Olympic stadium). This collaboration enables the UK researcher to access real life projects in China, which will be used as case studies to implement the technology. It will also help the Chinese researchers to share UK research findings and technology. Moreover, we will be able to share our research experiences in different application areas and develop future collaboration opportunities.



Professor Peter Barratt opening the CIB World Congress 2010

International conferences, workshops and other networks

During 2009/10, the School has contributed to the organisation of fifteen international conferences and nine international workshops. These events demonstrate the School's role, both as a leader in the built environment field, and as a conduit for international collaboration and engagement. Many of these conferences and workshops have brought together major international networks to address global challenges and advance research agendas. They extend the School's reputation and its ability to influence policy makers, industrialist and academics alike. A list of the conferences and events, which the School has led or had a major role in organising during 2009/10, is included in the Annex.

CIB World Congress 2010 - Building a Better World, Salford

The 2010 CIB World Congress was focused on Building a Better World. The construction and built environment sectors are already hugely important in achieving a world in which people are properly housed, in which buildings and transport systems support the efficient operation of economies, and in which people are happy and healthy. The conference agenda recognised that we can do better and focused upon connecting and channelling the full capacities of the construction and built environment industries to meet the needs of the human race, head on, to transform the world for us and for future generations.

Held at Salford Quays, the Congress included: high profile presentations by leading authorities and thought leaders; trend reports covering a wide range of disciplines; perspectives on national and regional markets around the world; and the latest academic papers from every corner of the global built environment research community.

Hundreds of researchers from around the world met at the Congress, representing a strong multi-disciplinary mix of over forty CIB Working Commissions and Task Groups and, as well as running their own academic streams, they supported a range of other activities, including responding to global challenges from bodies such as the UN, OECD, WHO and EC and engaging in a busy social programme. The Conference was chaired by the School's Professor Peter Barrett, President of CIB.

Theme Leader of the Royal Institution of Chartered Surveyors' COBRA 2010 International Research Conference

The University's Centre for Disaster Resilience organised and hosted a special disaster management stream as part of the Royal Institution of Chartered Surveyors' (RICS) COBRA 2010 International Research Conference. The event was typical of the long standing partnership between the School and the RICS. Dr Chaminda Pathirage and Dr Kaushal Keraminiyage, both from the School's Centre for Disaster Resilience, co-chaired the session.

The theme stimulated research ideas and views by exploring a range of perspectives from which the Built Environment is able to contribute towards improved resilience to disasters. The event included keynote addresses by Professor Dilanthi Amaratunga from the University of Salford and Dr Suzanne Wilkinson from the University of Auckland, New Zealand. The theme attracted more than 35 research papers and presentations on aspects as diverse as: disaster mitigation and response; climate change and disasters; disaster resilience and risk reduction; knowledge management and disasters; skills and human resource aspects of disaster management, gender and disaster management; building design and management in reconstruction. All the research papers were published in the formal proceedings of the RICS COBRA 2010 conference. Selected papers will also be published in a themed edition of the International Journal of Disaster Resilience in the Built Environment.

International Workshop on the Future of Green Building and Construction Research

In May 2010, the School's Dr Mohammed Arif and Professor Charles Egbu, in conjunction with the Management in Construction Research Centre (MIC) and CIB TG 74, organised an international workshop in Salford on the future of green building and construction research. The workshop aimed to: establish the future of Green Building and Construction Research nationally and internationally through a focused workshop; to establish potential research topic areas worthy of research investigation in the areas of green construction; and to form a critical group of researchers and practitioners who can act as collaborators for bidding in future research calls for proposals. The workshop began with a discussion on the "State of Play" of Green Construction Research, nationally and internationally. It established research initiatives dealing with Green Construction issues of existing and future buildings, as well as other construction initiatives in allied areas. A group of researchers from across the globe were formed who can act as Principal Investigators and Co-Investigators in future research bids. This group explored, discussed, and formulated a bidding strategy for responding to calls for proposals from international agencies such as the EU, World Bank, and United Nations. They also looked to explore and invite support from Industry and Government bodies for future bidding. The workshop concluded by formulating project outlines for some potential research bids in the area of Green Construction and Buildings.



RICS COBRA conference – Paris 2010

Appointments to international roles, networks and committees

The School leads, and has representation on, many of the built environment field's most distinguished and influential international networks and committees. These appointments demonstrate the high standing of the School's academic staff among peers and major stakeholders. They also position the School to engage globally with: key development agencies; local, regional and central government; universities and other higher education and further education bodies; and employers, industry and professional bodies. In doing so, the School is able to direct and influence future policy and the research agenda.



International Strategy for
Disaster Reduction

Academic partner and advisory panel member of the UNISDR Making Cities Resilient Campaign

In 2010, the School's Centre for Disaster Resilience joined the 2010-11 World Disaster Reduction Campaign "Making Cities Resilient: My city is getting ready!" as one of the partners. The campaign is coordinated by the United Nations International Strategy for Disaster Risk Reduction (UNISDR) but it is owned and driven by its partners and participating cities/local governments. The overall goal of the campaign is to achieve resilient, sustainable urban communities, with a growing number of local governments that are taking actions to reduce the risks to disasters. A longer term objective is to empower local governments with stronger national policies to invest in risk reduction at a local level, as part of urban and regional development plans.

Professor Dilanthi Amaratunga and Dr Richard Haigh (alternately) have been further invited to become members of the Campaign's Advisory Panel based on their expertise and academic experience in resilience and built environment, and following recommendations from partner organisations. The Advisory Panel is an independent group that provides support, advice and assistance to the Campaign. They support the Campaign from a technical viewpoint throughout the implementation period (2010-11) and provide guidance to the ISDR Campaign Task Team on the review and recommendation of nominated role model resilient cities, as well as tool development and monitoring of progress. The panel will help to evaluate the results of the campaign and provide guidance on the future directions of UNISDR with regard to making cities resilient.

President of the International Council for Research and Innovation in Building and Construction (CIB)

Professor Peter Barrett was President of the CIB for the period 2007–2010, the first from the UK for 30 years. CIB was established in 1953 as an Association whose objectives were to stimulate and facilitate international cooperation and information exchange between governmental research institutes in the building and construction sector, with an emphasis on those institutes engaged in technical fields of research. CIB has since developed into a worldwide network of over 5000 experts from about 500 member organisations with a research, university, industry or government background, who collectively are active in all aspects of research and innovation for building and construction.

Peter has been active within the CIB since 1987, initially within W088 (quality management) and then in W065 (organisation and management of construction). He was coordinator of W065 from 1996 to 2005, for which he was awarded "CIB Best Co-ordinator for 2001-2004". He was on the CIB Board from 1998-2001 and also from 2004-2007, as Programme Committee chair. From 2002 he has been CIB champion for the proactive theme "Revaluing Construction" which has led to strong policy guidance based on work with colleagues in many countries – see www.cibworld.nl/revaluingconstruction.



Professor Peter Barratt – CIB President 2007 – 2010

Strategic international partnerships

The School currently enjoys strategic partnerships with over fifty international universities and institutions, and also contributes to the University-wide Tier 1 partnership with RMIT in Australia. These partnerships are with organisations that share our mission to play a leading role in shaping the built and human environment towards green and sustainable futures, incorporating high quality living and social responsibility. They have the potential to impact on the University in terms of international ranking and expertise, giving access to new networks and alliances, and sharing best practice. They also demonstrate the School's global reach, spanning institutions in Asia, Africa, North America, Europe, and Australia. A list of the School's current international strategic partnerships is included in the Annex.



Dr Richard Haigh presenting at RMIT, Melbourne, Australia

Collaborative activity with RMIT, Australia

Professor Mike Kagioglou, Head of Department, visited RMIT to reinforce the need for further collaboration between the School of the Built Environment and RMIT's School of Property, Construction and Project Management. The visit supported the University-wide partnership with RMIT and the Memorandum of Understanding signed in 2009. Further visits by Professor Dilanthi Amaratunga and Dr Richard have been used to formulate joint research proposals under EU Framework 7's People and Cooperation Work Programmes.

Joint conferences and seminars with RMIT, Australia

The School's Centre for Disaster Resilience is organising a series of events in conjunction with RMIT's Department of Civil Engineering, the Sustainable and Urban Futures Research Programme, Global Cities Institute, Centre for Governance, Work and Technologies, and the EU Centre. The events focus upon the theme of building resilience. The series began with research seminars in Melbourne, Australia on Disaster Risk Reduction and Capacity Development and Research Directions in Disaster Preparedness, Mitigation, Management and Community Resilience. In 2011, the partnership will jointly organise an International Conference on Building Resilience: Interdisciplinary approaches to disaster risk reduction and the development of sustainable communities. The event, to be held in Sri Lanka and chaired by the School's Professor Dilanthi Amaratunga and Dr Richard Haigh, will support the UNISDR's 2010-2011 World Disaster Reduction Campaign 'Making Cities Resilient'.

Specific measures that have been taken to increase international student recruitment

The School's outstanding international profile in research and its extensive network of overseas alumni provide a strong base from which to grow the number of students studying both on and off campus. In order to capitalise on this foundation, the School promotes and supports visits by marketing and academic staff to overseas agents and prospective students. These visits aim to familiarise specific markets with the School's portfolio of undergraduate and postgraduate programmes. At present, the School's international students constitute approximately 10% (undergraduate), 50% (postgraduate taught) and 90% (postgraduate research) of the total student population. A list of recent overseas visits is provided in the Annex. In supporting international student recruitment, the school has undertaken a range of engagement activities overseas with professional institutions and industry, and also provided specific language support for overseas students. A list of these and other recruitment activities is included in the Annex.

Student recruitment visits

The School's Marketing Director, Brian Meichen, has visited agents and prospective students in many countries across the world, including India, Nigeria, Ghana, Malaysia, Sri Lanka. These visits aim at raising the profile of the School and promoting its programmes to national agents and prospective students. In some instances, the opportunity is also taken to make contact with institutions that the School has an on-going relationship with, such as the Universiti Institut Teknologi Mara and Construction Industry Development Board in Malaysia.

Publications co-authored with international partners

As noted elsewhere in this report, the School's outstanding profile in research and enterprise, and sustained effort to develop long-standing partnerships with overseas institutions has enabled it to deliver world class research and industry-focused outputs. The strength of these partnerships is partially demonstrated by the two books, eleven journal papers, and fifteen conference papers that have been jointly authored by academic staff from the School and overseas institutions. A list of these publications is provided in the Annex.

External accreditations and awards

The outstanding and internationally-leading quality of the School's research, teaching and enterprise activity has been formally acknowledged by numerous accreditations and awards from international institutions in 2009/10. A list of accreditations and awards is provided in the Annex.

CIB Best Coordinator's Award 2007 – 2010

The CIB Programme Committee gave the 2007-2010 triennial Best Coordinator's Award to the School's Paul Chynoweth, in recognition of his work as Coordinator since 2006 of Working Commission W113 - Law and Dispute Resolution. W113 was established in 2006 as the result of a merger of two former Commissions in this area which, at that time had become practically dormant, were losing members, and had no significant programme of activities and meetings. Paul was appointed as Coordinator to reinvigorate the commission. Since, W113 has developed into one of CIB's most active commissions and has helped to position CIB again as a relevant organisation in the area of construction law. The commission established a series of annual conferences resulting in high quality proceedings. Paul was the main driving force behind the establishment of a number of W113 related CIB Task Groups. Two of those are most relevant to the CIB Priority Theme of Sustainable Construction and one to the CIB Priority Theme of Integrated Design and Delivery Solutions. This focussed the attention of the international community of the legal experts in Building and Construction on how they can best contribute to the defined CIB Priority Themes, even though these themes seem to be outside of their prime field of attention. Paul set up a new W113 related and CIB Encouraged Journal in the area of international Construction Law, with himself as the main editor. The journal quickly developed into a high prestige one. W113 was the first CIB Commission to establish an International Commission related CIB Student Chapter. This was launched at the CIB 2010 World Building Congress.



Paul Chynoweth – Best Coordinator Award – CIB 2010

Media, innovative and creative activities

The School's international research and enterprise seeks to engage relevant stakeholders so that positive change can result from its activities. The world's media provides a platform from which to promote and disseminate our work. Press conferences have been effectively used by some of the School's research groups as a means to raise the overseas media's attention to the work being undertaken locally.

The Centre for Disaster Resilience has been the subject of several articles in the Sri Lankan national press. The articles focus on the Centre's work in the country since the 2004 Indian Ocean Tsunami and the major challenges associated with reconstruction of the North and East following cessation of violence in the area in 2009 following decades of civil war. Online versions of some of the articles can be accessed using the links below:

Empowering people in post conflict areas vital. Daily News. 18/06/2009, <http://www.dailynews.lk/2001/pix/PrintPage.asp?REF=/2009/06/18/bus02.asp>

Build Back Better says visiting Disaster Resilience DUO. Sri Lanka News First, <http://srilankanewsfirst.com/sci-tech/11528.html>

Build Back Better says visiting Disaster Resilience DUO. 16/06/2009, http://www.thecolombotimes.com/index.php?option=com_content&view=article&id=5471:build-back-better-says-visiting-disaster-resilience-duo&catid=4:featured-ne

Industry engagement

From the design of curriculum to applied research, the School engages with international industry and non-governmental organisations to ensure that it can continue to deliver state-of-the-art and applied research and teaching programmes. Engaging with industry is a dialogue. The School seeks advice and input from industry leaders, while in return it seeks to influence policy and practice. A list of the School's engagement activities with industry is provided in the Annex.



United Nations Development Programme (UNDP) National Training Workshop on Disaster Risk Assessment and Management for the Coastal Zone of Sri Lanka

The United Nations Development Programme (UNDP) has endorsed the activities of the School's Centre for Disaster Resilience, and in particular, its work in Sri Lanka on: capacity development for strengthened ownership and sustained results on disaster mitigation and reconstruction; development of institutional frameworks on disaster risk management (DRM); and promotion of efforts to decentralize it and for helping to streamline various local DRM efforts under a common platform. The Centre is working on a joint programme of activities with UNDP. As a part of this initiative, representatives of the Centre were invited by the UNDP to facilitate an International Training Workshop on Disaster Risk Assessment and Management for the Coastal Zone of Sri Lanka: Developing a Knowledge Base on Hazards, Vulnerabilities and Capacities for Disaster Risk Reduction. Several sessions were led by the Centre's academic team, which comprised Professor Dilanthi Amaratunga, Dr Richard Haigh, Dr Chaminda Pathirage & Dr Kaushal Keraminiyage. They presented on a range of subjects including: knowledge management and best practice sharing in disaster risk management; the concept of empowerment; use of virtual networks and other mechanisms in capacity building and risk reduction; resilient cities; stakeholders in disaster risk reduction; and, capacity building for disaster preparedness and reconstruction.

Staff and student exchanges

Staff and student exchanges with other leading international Higher Education Institutes provide a way for the School to embed an international and intercultural dimension into its teaching and research. Our staff can get to know first-hand the workings of another educational system, learn new ideas and discover best practices to take back to the School. Visiting scholars share their research and bring a different perspective to our taught programmes. Students can discover a different culture and gain an international perspective. They are equipped for the global knowledge economy, given the skills to become global citizens and are ambassadors of the future. A list of the School's recent staff and student exchange programmes is provided in the Annex.



Dr Angela Lee presenting at the University of Chongqing, China

Teaching and research collaboration post at the University of Chongqing, China

The faculty of Construction Management and Real Estate at Chongqing University is one of the leading and oldest faculties of construction management in China. With over 60 members of academic staff and over 2000 postgraduate and undergraduate students, Professor Ghassan Aouad (Pro-Vice Chancellor for Research) and Dr Song Wu recognized the emergent need to forge links with the faculty to ensure the positioning of the School of the Built Environment against the exponential growth of the Chinese construction industry, and subsequent research and training needs that are apparent in the country. The success of the visit led to a Memorandum of Understanding being signed between Professor Ghassan Aouad and Professor Zongyi Zang, Vice President of Chongqing University, P.R. China, in April 2009.

Following this agreement, the School of the Built Environment has been working to develop collaboration opportunities. Following continued discussions with Professor Ghassan Aouad and Dr Song Wu, and under the MOU, Chongqing University welcomed a further visit from Andrew Fleming (Director of Admissions within the School of the Built Environment) in July 2010 to exploit the range of courses the school has to offer to their students. In addition, a funded teaching exchange was arranged in August 2010 for Dr Angela Lee to take residence at Chongqing for 2 weeks. During the teaching exchange, Dr Angela Lee delivered 5 keynote lectures to staff and students in the areas of nD modelling, process management, design management, sustainability and leading research that is being undertaken within the School of the Built Environment. The aim was to exploit and to establish synergy research and teaching areas. The success of the visit has helped to secure an ongoing relationship, and discussions are taking place for future staff and student exchanges.

ERASMUS exchange with FH-Johanneum, Graz, Austria

The BSc Construction Management programme in SOBE has a long standing (since 2003) exchange arrangement with The Department of Construction Engineering at FH-Johanneum in Graz, Austria.

The primary exchange vehicle has been the exchange of undergraduate students, making use of the ERASMUS programme, enabling Level 2 students to study in Austria for 1 semester. In return, the School has hosted Austrian construction engineering students on a number of modules within the school over the same time period. Typically, we exchange 5 or 6 students in any one year, normally based on selecting those best able to take advantage of the opportunity. Benefits of these exchanges for both the travelling students and the host organisations are widely documented elsewhere, but include the sharing of both social and professional cultures of the respective countries.

In addition to undergraduate students, there have also been a number of staff based exchanges, with Salford staff supporting project working in Austria and Austrian staff supporting project work in Salford. In each case the visiting staff are able to bring a different "European" perspective to the work which enriches the learning for all students.

We have been particularly fortunate in our relationship with FH-Joanneum, as they deliver many of their lectures in English which has promoted a good uptake of exchange places by Salford students. Attempts to forge relationships with institutions in other European countries have often not come to fruition when English is not the primary delivery language, thereby severely restricting the numbers of UK students wishing to exchange.

Appointments as external examiners, advisors and reviewers

The School's outstanding international profile in teaching, research and enterprise is further evidenced by the range and extent of our academic staff's appointments overseas as: external examiners, auditors and evaluators to other Higher Education Institutes; external advisors to companies and institutions; and, as reviewers for international funding bodies. These appointments acknowledge our academic staff's global standing, while also providing the opportunities to strengthen partnerships and discover best practices to take back to the School. A list of appointments during 2009/10 is provided in the Annex.

Advisor to the Chamber of Construction Industry Sri Lanka

Professor Dilanthi Amaratunga and Dr Richard Haigh are advisors to the Chamber of Construction Industry Sri Lanka (CCI). As the accredited representative of the Domestic Construction Industry, founded by all Institutes and Associations of Construction Professionals and the National Construction Association of Sri Lanka, CCI has consultative status with the Government of Sri Lanka and in particular with the Ministry of Construction & Engineering Services, the Ministry of Export Development & International Trade and the Ministry of Foreign Affairs, among others. It has been founded by institutions and associations of construction professionals and contractors to be the Apex body of the Industry and a single voice on issues pertaining to construction and infrastructure development projects. Dilanthi and Richard have been advising them on a range of initiatives, including: Construction Alliance – Construction Craftsman Training Programme, a partnership between USAID Sri Lanka and CCI on the crosscutting themes of conflict transformation and gender in construction crafts; and, Conflict Transformation and Peace Building through the Vocational Training of Youth in the East of Sri Lanka, a partnership between GTZ Sri Lanka and CCI, funded by the German Ministry of Foreign Affairs and with a dual focus upon conflict transformation and vocational training.

Editor of international journals

Members of the School's academic staff are engaged as Editors of five internationally recognised academic journals linked to the built environment field. The journals promote research and scholarly activity in the diverse areas of law, disaster resilience, postgraduate research, archaeology and 3D information modelling. Many are also engaged as members of a journal's Editorial Board or Review Panel. During 2009/10, members of academic staff were further appointed as Editors of four international conference proceedings and Guest

Editors of nine journal special issues. A list of all the School's Editorial-related appointments is provided in the Annex.

International Journal of Disaster Resilience in the Built Environment

In 2008, Professor Dilanthi Amaratunga and Dr Richard Haigh from the School's Centre for Disaster Resilience proposed to establish an International Journal of Disaster Resilience in the Built Environment. After discussions with several publishing houses, Emerald Publishing accepted the proposal, and Dilanthi and Richard were appointed as Editors. Since its launch issue in 2010, the journal has sought to promote research and scholarly activity that examines the role of building and construction to anticipate and respond to unexpected events that damage or destroy the built environment and reflects construction's on-going responsibility toward built environment's users. The journal is designed for researchers and academics, policy makers and other professionals working with, or who anticipate having, disaster prevention, mitigation, response and reconstruction responsibilities, and who wish to improve their working knowledge of both theory and practice. The journal is already indexed and abstracted in the British Library, Construction and Building Abstracts, ICONDA - The International Construction Database, Business Source Premier (EBSCO), ABI INFORM Global (ProQuest), Cambridge Scientific Abstracts (ProQuest) and INSPEC. After successfully completing the inaugural volume, Dilanthi and Richard are working with UNISDR and several major research networks to publish special issues on Resilient Schools, Resilient Healthcare and Resilient Cities. The journal can be accessed at: <http://www.emeraldinsight.com/products/journals/journals.htm?id=ijdrbe>.





Our Challenges



Internationalisation is a natural, well-established and necessary part of academic activities for some academic environments; for others, an increased focus on internationalisation means changing working methods and priorities. In recognising internationalisation as a process, we identify the following as challenges:

1. Lack of understanding of the key elements of a successful partnership.
2. It is a major challenge to identify, prioritise and utilise important strategic alliances with strong or innovative international research capabilities and networks, and to secure support for them at the relevant levels in the institution.
3. Dealing with dangers associated with such efforts simply disappearing because they are difficult and face so many barriers to sustainability (maintaining momentum).
4. Dealing with measures and activities can be very demanding in terms of resources.
5. Ensuring the recruitment of young talent

who have the potential to become international research leaders.

6. Most work on partnerships has only begun in the last few years. Many of the criticisms of this approach (objections generated by people who are in partnerships as well as those who observe them from afar) reflect responses to these early efforts and the difficulties encountered in formative stages.
7. How can we cope with the opportunities we have?
8. Selectivity – with whom do we need to work with?
9. Need to have a process in place to manage the transitional arrangements and resourcing of School-based activities (e.g. that result out of Tier One partnerships, as developments on these partnerships need to be shared at the institutional level in order to raise awareness and support for these partnerships).



How do we want to shape
our international activities?



One of our major strengths is our people, our multicultural academic staff. Our ability to provide excellent research and teaching depends on them and we attribute much of our success to the quality of our academic and support staff. Greater involvement of staff in international activity is at the core of our activities, including identification of champions for specific partnerships supported by setting up short term, medium term and long term objectives and targets, including incentives. Other planned initiatives include:

1. Identify patterns of international collaboration that prevail within the School.
2. Plan and implement strategically significant international engagement activities, including defining the number of strategic partners we seek to work with along with their geographical spread; learn from our current partnerships; identify and promote strategic, long term tangible partnerships that are of added value; establish a footprint in various continents and countries e.g. Sri Lanka, Malaysia, USA; increase international research partnerships; and, recognition that resourcing of these partnerships at operational level is crucial.
3. Enhance the student experience and engagement. This will involve a focus on ways to internationalise our curriculum to ensure programme differentiation and attraction, as well as on developing the Salford graduate.
4. Plan, develop and implement key specific proposals including:
 - Identify and implement a Learning and Teaching Strategy incorporating an international, globalised learning experience, a focus on employability and support for student exchange and placements.
 - Implementation of the Research and Innovation Strategy, including the development of research centres, an increase in international research collaborations and links, and an increase in research output and international PhDs.
 - Development of a small number of high level strategic partnerships.
 - Specific measures to increase international student recruitment.
 - A significant increase in international partnerships concerned with international student recruitment to on campus and off campus programmes (including articulations, joint programmes, exchanges and work placements).
 - Development of brand and a communications strategy incorporating key messages and benefits for partners, prospective students and employees.
 - Review of the student experience with a focus on improving the international student experience.



How do we measure the success of such partnerships?



Ellingboe⁶ expands the definition of internationalisation by stating that, "Internationalisation will be defined as the process of integrating an international perspective into a college or university system. It is an on-going, future oriented, multi-dimensional, interdisciplinary leadership driven vision that involves many stakeholders working to change the internal dynamics of an institution to respond and adapt appropriately to an increasingly diverse, globally focused, ever changing external environment." At a time when public and private institutions are being held ever more accountable by the public and other various stakeholder groups, performance measurement of any activity has become an increasingly important exercise.

In the area of internationalisation, Knight⁷ identifies the process of performance assessment as "a process whereby individual institutions of Higher Education assess and enhance the quality of their international dimension according to their own stated aims and objectives." As such, performance indicators are tools that are used in the performance assessment process. In line with this, the following are indicators that will be used to measure our progress and enable actual results achieved over time to be compared with planned results:

- Positioning within recognised global rankings e.g. World Top 5 BE Schools.
- Degree of cultural change as measured by stakeholder, staff and student perception survey.
- International student experience.
- Number and progress made in developing strategic partnerships.
- Numbers of international students in the School.
- Number of partnerships and students on partner programmes overseas.
- Number of students studying / working abroad each year.
- Increased research funding.
- Percentage of staff who are international.
- Number of individual overseas links.
- Number of articles, citations co-authored with international partners.
- Number of international visitors/visiting scholars/ professors.
- Increase in external accreditations and awards.

⁶ Ellingboe, B. J. (1998) "Divisional Strategies to Internationalize a Campus portrait: Results, Resistance, and Recommendations from a Case Study at a U.S. University", Mestenhauer, J. A. & Ellingboe, B. J. (ed.), *Reforming the Higher Education Curriculum: Internationalizing the Campus*, The American Council on Education/Oryx Press, pp. 198-228.

⁷ Knight, J. (2002) *Developing an Institutional Self Portrait Using the Internationalization Quality Review Process Guidelines*, <http://www.eotu.uiuc.edu/events/IQR SelfPortrait.pdf>



What do we need to do in encouraging these activities within the School?

Our future vision includes specific initiatives to promote international activities among the School of the Built Environment's staff. They include:

- International Collaboration Award – Early Career Academic Staff.
- International Research Collaboration Workshop Grants.
- Strengthen and/or develop long-term partnerships and advance formal institutional teaching/research and other agreements.
- Workshops and/or roundtables.
- SoBE international collaboration showcase event.



Annex



Teaching partnerships

Amaratunga, D., A partnership with Colombo School of Construction Technology (CSCT), Sri Lanka to deliver School of the Built Environment's BSc in Quantity Surveying degree programme in Sri Lanka, 2010.

Khosrowshahi, F., Established PhD studentship MOA (Memorandum of Agreement) with Damascus University, Syria, 2010.

Khosrowshahi, F., Discussions with three Universities in Iran (University of Tehran, University of Science & Industry, Amir Kabir University) to build Construction Management undergraduate capabilities; joint MSc programmes; joint PhD programmes; etc., 2009 Discussions with Middle East Technical University, Turkey to promote MSc IT management in Construction, 2009.

Kiviniemi, A. & Tzortzopoulos, P., Preparations for the new MArch programme: International Letters of Support from Queensland University, Stanford University, Skanska, Senate Properties, Tekla, Granlund Engineering, Solibri, Rapal, and RYM (Built Environment Innovations, Finland), 2010.

Kiviniemi, A. & Tzortzopoulos, P., The development of the new MSc Integrated design and BIM (Building Information Modelling) is being supported by a number of international organisations: Juna Hetemaki, Business Unit President, Managing Director, Skanska, Finland; Prof Martin Fisher, Stanford University, USA; Prof Robert Amor, The University of Auckland, New Zealand; Ragnar Wessmann, Chief Product Strategist, Tekla, Finland; Reijo Hannien, Managing Director, Granlund,

Finland; Aulis Kohvakka, Chief Executive, Senate Properties, Finland; Heikki Kulushjarvi, Managing Director, Solibri, Finland; Tekes – Finnish Funding Agency for Technology and Innovation, Mika Lautanala, Director, Built Environment, Safety and Security, 2010.

Actions associated with internationalising the curriculum/global citizen

Fortune, C., Establishing Faculty strategy to include internationalising the curriculum. Instigated a requirement for new programmes to consider international perspective as part of approval process, 2010.

Amaratunga, D. & Kulatunga, U., Involved in the development of affiliation with a Sri Lankan institute (Colombo School of Construction Technology) to deliver BSc (Hons) Quantity Surveying programme as currently delivered at School of the Built Environment, University of Salford, 2010.

Invited Speeches, Lectures & Session leaderships during 2009/2010 academic year

Key note speeches

Amaratunga, D. (2001). Keynote speech on "A Resilient City – A myth or a reality?" The Royal Institution of Chartered Surveyors (RICS) Annual Research Conference on Building and Construction (COBRA), Dauphine Université Paris, France, on 2-3 September 2010.

Amaratunga, D. (2010). Speech titled Evaluation of disaster risk reduction practices and vulnerabilities of infrastructure reconstruction at the International Research Conference on Sustainability, The Commonwealth Association of Surveying and Land

Economy (CASLE) and Building Economics and Management Research Unit (BEMRU), Department of Building Economics, University of Moratuwa, Sri Lanka, June 2010.

Barrett, P. (2010). Opening Keynote Speech "Revaluing Construction in the Malaysian Context", 2nd Construction Industry Research Achievement International Conference, CIDB / CREAM, Kuala Lumpur, Malaysia. 3 November 2009.

Barrett, P. (2009). Opening speech, facilitation and summary "Revaluing Construction: Malaysian Strategy Workshop", Workshop on Revaluing Construction: The Realisation of Malaysian Construction Industry Master Plan (CIMP 2006-2015) the Way Forward, Malaysian CIDB / CREAM, Kuala Lumpur, Malaysia. 2 November 2009.

Barrett, P. (2009). Opening Keynote Speech "Building a Sustainable Future", CIB W55/W65 Joint Symposium – Construction Facing Worldwide Challenges, Dubrovnik, Croatia. 28 September 2009.

Brandon, P. (2010). Universities Australia (equivalent to Universities UK) Higher Education Conference 2010: Keynote presentation on Sustainable Development.

Brandon, P. (2010). International Research Conference on Sustainability in the Built Environment 2010, Colombo, Sri Lanka: Keynote presentation on setting a strategy for sustainable development.

Fernando, T. (2010). Keynote presentation on Collaborative Workspaces to Digital Life Conference, Kaohsiung, Taiwan, 2010.

Haigh, R. (2009). Invited key note speech on "Capacity Development for Reconstruction", Seminar for Chamber of Construction Industry Sri Lanka, on Rehabilitation and Reconstruction of the Northern and Eastern Provinces, Colombo, Sri Lanka, June 2009.

Koskela, L. (2009). Keynote Lecture on Lean Construction /Lean Construction Seminar Tallinn, Estonia Oct 2009

Koskela, L. (2009). Keynote Lecture on Waste, 4th CONENX (IV Seminario Internacional sobre Construcao Enxuta) Fortaleza, Brazil, July 2010.

Kulatunga, K. (2010). Keynote speech at Patuakhali Science and Technology University, Bangladesh on risk based approaches to flood risk management in the UK.

Marvin, S. Keynote address on work on urban ecological security and urban knowledge exchange: 'South African World Town Planning Day'.

Powell, J. (2009). Keynote: Towards better Leadership, Governance and Management in University Reach-out to Business and the Community – an UPBEAT Approach at Seventh Annual PASCAL International Observatory International Conference on Community – the Third Mission of Universities, University of British Columbia, Vancouver, Canada, May 18th, 2009.

Powell, J. (2009). Keynote: 'How to form Stronger Relationships between Students, Academics, Business and the Community' at The Matchmaking Conference, held at the University of Aalborg, Denmark, 24th September, 2009.

Powell, J. (2010). Keynote: University Empowerment and Engagement with Community and Social Enterprise at the University of British Columbia, 1st April 2010.

Powell, J. (2010). Keynote: 'The PASCAL Universities for a Modern Renaissance project and its delivery' at the Heritage, Social Inclusion and the Future Conference in Jamptland, Ostersund, Sweden, July 2010.

Powell, J. (2010). Keynote: 'Enterprising Academics and the Knowledge Capital – towards PASCAL Universities for a Modern Renaissance (PUMR)', World Knowledge Capital Summit, Melbourne, Australia, 2010.

Underwood, J. (2010). Invited online keynote to the Turkish National Academic ICT Conference, Construction Informatics Workshop, February 2010.

Invited speeches and presentations

Amaratunga, D. (2010). Invited speech on "Environmental disaster risk reduction and capacity development", Department of Civil and Environmental Engineering, RMIT University, Melbourne, Australia, March 2010.

Amaratunga, D. (2010). Invited speech on "Disaster risk reduction and capacity development", Faculty of Built Environment and Engineering, Queensland University of Technology, Brisbane, Australia, March 2010.

Amaratunga, D. (2010). Session on "Disaster risk reduction and the built environment", Department of Civil Engineering, University of Melbourne, Melbourne, Australia, March 2010.

Amaratunga, D. (2010). Session on "Social impact of reconstruction", Centre for Refugee Studies, York University, Toronto, Canada, January 2010.

Arif, M. (2010). Invited Speaker, Indian Green Building Congress, Oct 5-8, 2010, Chennai, India.

- Barrett, P. (2009). Invited presentation "Creating Optimal Sensory Environments", Lighting Research Centre, Rensselaer Polytechnic Institute, Troy, NY, USA, 3 December 2009.
- Barrett, P. (2009). Invited talk for postgraduates, "Realising the full potential of the built environment" Centre for Integrated Facilities Engineering, Stanford University, Palo Alto, California, USA. 1 December 2009.
- Barrett, P. (2009). Invited talk "Realising Sensory-sensitive Environments" Salk Institute, La Jolla, CA, USA. 17 November 2009.
- Barrett, P. (2010). Presentations and facilitation of senior management staff development, "The Ecology of Inspirational Organisational Performance and Development", QUT, Brisbane, Australia. 10 November 2009.
- Barrett, P. (2009). Invited presentation to Vice Chancellor's Forum, "Creating an Environment for Innovation - Experiences in Cities, Global Research Communities and Universities", QUT, Brisbane, Australia. 9 November 2009.
- Barrett, P. (2009). Invited speech "Partnering in Research", University of Malaya, Kuala Lumpur, Malaysia. 5 November 2009.
- Barrett, P. (2009). Invited lecture to postgraduates "Creating a Better Future through the Built Environment", School of Engineering and Technology, Asian Institute of Technology, Bangkok, Thailand. 19 October 2009.
- Brandon, P. (2010). Hong Kong Polytechnic University: series of lectures
- Brandon, P. (2010). University of Newcastle, NSW, Australia. 2010: Series of lectures on information technology as applied to design and construction; sustainable development; on research leadership & development and lectures on Information Technology applied to design and construction.
- Chynoweth, P. (2009). Guest Lecture - City University of Hong Kong, Thursday 10 December 2009: 'Legal research in the built environment: international and interdisciplinary perspectives'.
- Chynoweth, P. (2009). Guest Lecture - Hong Kong University of Science and Technology, Friday 11 December 2009: 'The international built environment law research community'.
- Fernando, T. (2010). Presentation to EURO CITIES Knowledge Society Forum: Breaking through complexity by using visualisation techniques to empower citizens & stakeholders in the urban planning process, Linköping, Sweden, 2010.
- Fernando, T. (2010). Presentation at E-BuHu MC II: Collaborative workspaces for supporting complex projects, Sarkarya, Turkey, 2010.
- Fernando, T. (2010). Presentation to SiTi Institut: Innovation approaches in the Think Lab, Turin, Italy, 2010.
- Finch, E. (2009). Invited presentation (Vision on governance of facilities service organizations; professional and academic considerations) and involvement in panel discussion at Dutch Association of Facilities Management Annual Conference, hosted by Facility Management Nederland, The Netherlands, November 2009.
- Haigh, R. (2010). Invited speech on "Environmental disaster risk reduction and capacity development", Department of Civil and Environmental Engineering, RMIT University, Melbourne, Australia, March 2010.
- Haigh, R. (2010). Invited speech on "Disaster Risk Reduction and Capacity Development", Faculty of Built Environment and Engineering, Queensland University of Technology, Brisbane, Australia, March 2010.
- Haigh, R. (2010). Invited speech on "Disaster Risk Reduction and the Built Environment", Department of Civil Engineering, University of Melbourne, Melbourne, Australia, March 2010.
- Haigh, R. (2010). Invited speech on "Social Impact of Reconstruction", Centre for Refugee Studies, York University, Toronto, Canada, February 2010.
- Haigh, R. (2010). Invited speech on "Resilience in the built environment", at the Mini-Symposium organised by the International Institute for Infrastructure, Renewal and Reconstruction (IIIRR), Schulich School of Engineering, University of Calgary, February, 2010.
- Haigh, R. (2009). Invited speech on "Disasters and the built environment", Eastern University of Sri Lanka, Batticaloa, Sri Lanka, November 2009.
- Haigh, R. (2009). Invited speech on "Disaster management applications in the built environment", University of Cape Town, South Africa, October 2009.
- Hudson, M. (2010). 'Low Carbon Transitions' – SURF made presentations to research and policy audiences in Washington DC, USA, in two special sessions of the annual conference of the American Association of Geographers in April 2010.

Ingirige, B. (2010). Invited Guest speaker at the RICS COBRA conference, under the special theme of disaster management. The presentation was titled "Climate change and business adaptation", Paris, September 2010.

Keraminiyage, K. (2010). Invited guest speech on "Use of virtual networks and other mechanisms for capacity building and disaster risk reduction" at the UNDP National Training Workshop on Disaster Risk Assessment and Management for the Coastal Zone of Sri Lanka, June 2010.

Koskela, L. (2009). Invited Lecture on Lean Construction ILCE (Institute for Lean Construction Excellence) workshop Mumbai, India, Nov 2009.

Koskela, L. (2010). Invited Lecture Arvo (The Association for Research in Vision and Ophthalmology) workshop Helsinki, Finland, June 2010.

Koskela, L. (2010). Invited Lecture BIM on Lean, BIM and Sustainability (Building Information Modelling)-enabled Lean Sustainable Building Workshop Malmo, Sweden, April 2010.

Koskela, L. (2010). Invited Lecture SIG on Analysis and Synthesis (Special Interest Group) on Design Theory Workshop Paris, France, Feb 2010.

May, T. 'World Urban Forum in Rio de Janeiro' – SURF was invited to attend and present on its work as part of a developing association with Mistra Urban Futures, Sweden.

Ormerod, M. & Newton, R. (2010) Invited attendance at Anglo-Chinese symposium on getting outdoors: Healthy Aging and the Physical Environment. Knowledge transfer event, May 2010.

Pathirage, C. (2010). Facilitator and Guest Speaker on good practice sharing and lessons learned' as part of 'capacity building for preparedness and reconstruction' theme in National Training Workshop on Disaster Risk Assessment and Management organised by UNDP and University of Moratuwa, June 2010.

Pathirage, C. (2009). Facilitator and Guest Speaker for the PhD research training workshop, CIB Changing Roles 2009 conference, Noordwijk aan Zee, Netherlands, October 2009.

Perry, B. (2010). 'EU Cities of Tomorrow initiative by DG Regional Policy' - SURF was invited to speak on its work at the first workshop in June 2010 and the second in October 2010, Brussels, Belgium.

Powell, J. (2010). The collaborative role of

Universities and Business: Moving the Agenda Forward, The Downtown Victoria Business Club Meeting, Vancouver, 5 April 2010.

Powell, J. (2009). Assessing Excellence and Valuing the Diverse Academic Contribution of Indigenous and Community Based Scholars. University of Victoria, Vancouver, Canada. Public Lecture.

Ruddock, L. (2010). Keynote presenter on 'Outlook for the Construction Industry: Further Recession or Aiding Recovery?' and Workshop organiser (Futures and the Construction Industry) at the CIB World Congress 2010, Salford, May, 2010.

Ruddock, L. (2010). Invited speaker: Al Fateh University, Libya 'Research Methodologies for PhD Studies', July 2010.

Ruddock, L. (2010). Invited speaker: Garyounis University, Libya 'Development of a UK:Libya Economics Research Agenda', July 2010.

Ruddock, L. (2010). Invited speaker: Postgraduate Academy of Libya 'Research Collaboration', July, 2010.

Tzortzopoulos Fazenda, P. (2009). Invited Lectures at two Brazilian HEIs in May 2009: USP (Federal University of Sao Paulo, Saco Carlos) and UFRGS (Federal University of Rio Grande do Sul, Porto Alegre) – Research In Healthcare (HaCIRIC). Subjects: research projects on design for operational efficiency; benefits realisation; and effects of the built environment into health outcomes.

Underwood, J. (2010). Invited lecture: Beykent University, Istanbul, Turkey, 22 April 2010 on ICT: Strategic Value, Organisational e-readiness and Improving Construction Performance.

Session lead

Amaratunga, D. (2010). Session lead. International Workshop on Disaster Risk Reduction and Resilient Cities, Batticaloa, eastern Sri Lanka, June 2010. Resilient Cities Initiative 2010 - 2011. United Nations International Strategy for Disaster Reduction (UNISDR).

Amaratunga, D. (2010). Workshop session leader and facilitator - "Capacity Development for a Resilient Built Environment", United Nations Development Programme (UNDP) National Training Workshop on Disaster Risk Assessment and Management for the Coastal Zone of Sri Lanka: Developing a knowledge base on Hazards, Vulnerabilities and Capacities for Disaster Risk Reduction, Kandy, Sri Lanka, June 2010.

Amaratunga, D. (2010). Workshop session leader and facilitator - "The Concept of Empowerment", United Nations Development Programme (UNDP) National Training Workshop on Disaster Risk Assessment and Management for the Coastal Zone of Sri Lanka: Developing a knowledge base on Hazards, Vulnerabilities and Capacities for Disaster Risk Reduction, Kandy, Sri Lanka, June 2010.

Amaratunga, D. (2010). Theme Leader, Disaster Planning and Mitigation, Construction Research Congress 2010. Innovation for reshaping construction practice, University of Alberta, Canada. May 2010.

Amaratunga, D. (2010). Leader, International Panel Discussion on "Built Environment Education Trends". International Research Conference on Sustainability in the Built Environment, The Commonwealth Association of Surveying and Land Economy (CASLE) UK and Building Economics and Management Research Unit (BEMRU), Department of Building Economics, University of Moratuwa, Sri Lanka, June 2010.

Amaratunga, D. (2010). Session chair on "Disaster Management". International Research Conference on Sustainability in the Built Environment, The Commonwealth Association of Surveying and Land Economy (CASLE) UK and Building Economics and Management Research Unit (BEMRU), Department of Building Economics, University of Moratuwa, Sri Lanka, June 2010.

Amaratunga, D. (2010). Session chair, Workshop on Capacity Development for Disaster Risk Reduction in the Built Environment, CIB World Congress 2010 : Meeting Society's Challenges - Disaster Management, CIB World Congress, Salford Quays, Salford, UK, May 2010.

Amaratunga, D. (2010). Session lead at the Mini-Symposium organized by the International Institute for Infrastructure, Renewal and Reconstruction (IIIRR), Schulich School of Engineering, University of Calgary, Canada, February 2010. Title of the symposium "Best Practices for Disaster Management". Title of the session "Risk Management for Community Based Post Disaster Reconstruction".

Amaratunga, D. Leader/Project Manager - United Nations/CIB major disaster management initiative on Capacities, Disasters and the Built Environment - Strategies to enhance capacity for disaster mitigation and reconstruction of the built environment.

Arif, M. (2010). Session Chair. CIB TG74: Task group on new production and business processes in construction special session, CIB World Congress, 2010, Salford, UK.

Arif, M. (2010). TG57: Task group on industrialization in construction special session, CIB World Congress, 2010, Salford, UK.

Barrett, P. (2009). Invited seminar for postgraduates "The Potential for Achieving Positive Impacts through Built Environment Research", Faculty of Built Environment and Engineering, QUT, Brisbane, Australia. 11 November 2009.

Chynoweth, P. (2009). Law Stream Leader - COBRA 2010 (RICS Annual construction, building and real estate research conference), University of Cape Town, South Africa, September 2009.

Haigh, R. & Amaratunga, D. (2010). Session Lead, Making Batticaloa a Resilient City : 2010-2011 World Disaster Reduction Campaign, United Nations Development Programme (UNDP) National Training Workshop on Disaster Risk Assessment and Management for the Coastal Zone of Sri Lanka: Developing a knowledge base on Hazards, Vulnerabilities and Capacities for Disaster Risk Reduction, Kandy, Sri Lanka, June 2010.

Haigh, R. (2010). Workshop session leader, "Stakeholder Identification and Engagement", United Nations Development Programme (UNDP) National Training Workshop on Disaster Risk Assessment and Management for the Coastal Zone of Sri Lanka: Developing a knowledge base on Hazards, Vulnerabilities and Capacities for Disaster Risk Reduction, Kandy, Sri Lanka, June 2010.

Haigh, R. (2010). Workshop session leader, "Making Batticaloa a Resilient City", United Nations Development Programme (UNDP) National Training Workshop on Disaster Risk Assessment and Management for the Coastal Zone of Sri Lanka: Developing a knowledge base on Hazards, Vulnerabilities and Capacities for Disaster Risk Reduction, Kandy, Sri Lanka, June 2010.

Haigh, R. (2010). Member of international panel for discussion on "Built Environment Education Trends", International Research Conference on Sustainability in the Built Environment, Commonwealth Association of Surveying and Land Economy (CASLE), UK and Building Economics and Management Research Unit (BEMRU), Department of Building Economics, University of Moratuwa, Sri Lanka, June 2010.

Haigh, R. (2010). Session chair on "Process and Performance Management", International Research Conference on Sustainability in the Built Environment, The Commonwealth Association of Surveying and Land Economy (CASLE) UK and Building Economics and Management Research Unit (BEMRU), Department of Building Economics, University of Moratuwa, Sri Lanka, June 2010.

Haigh, R. (2009). Session lead entitled "Capacity building for rehabilitation and reconstruction", Annual International Conference on impact of natural hazards and disasters on social & economic infrastructure development, organised by the Infrastructure Institute for Renewal & Reconstruction, Ahungalla, Sri Lanka, July 2009.

Ingirige, B. (2010). Led special theme entitled Innovations in Construction e-Business at the 6th International conference on Architecture, Engineering and Construction (AEC) conference in June 2010, Penn State University, USA.

Keraminiyage, K. (2009). Invited to lead a workshop: PhD research training workshop, Changing Roles 09, Noordwijk aan Zee, Netherlands, October 2009.

Koskela, L. (2010). Invited Senior Chair at the 18th Annual Conference of the International Group for Lean Construction, Haifa, Israel, July 2010.

Ormerod, M. & Newton, R. (2010) Invited workshop on the theme of Lifetime Neighbourhoods, Association of Occupational Therapists of Ireland Annual Conference: Occupational Therapists – Achieving Goals, Dublin, Republic of Ireland, May 2010.

Ormerod, M. & Newton, R. (2010) Hosted two days of week long Anglo-Canadian Study Tour: The Science of Age-Supportive Built Environments, Scotland, March 2010 (leaders brought together by the Canadian Institutes of Health Research - Institute of Aging and KT-EQUAL, a programme of the Engineering and Physical Sciences Research Council).

International research projects and collaborations

Projects

Amaratunga, D., Pathirage, C., Keraminiyage, K., Kulatunga, U. & Siriwardena, M. (2009). Built Environment Lifelong Learning Challenging University Responses to Vocational Education (BELL CURVE)" (2009 – 2011: funding € 461,591). Principle Investigator of this international collaborative project with Tallinn University of Technology – Estonia and Vilnius Gediminas

Technical University – Lithuania.

Abbott, C. (2010). Co-Investigator in Finnish funded (TEKES: Finnish Funding Agency for Technology & Innovation) Retrofit Project (ApRemodel). Commences September 2010. Salford Funding £50k.

Abbott, C. (2010). Co-Investigator in EPSRC/EDF funded 'Maximising the Diffusion of Microgeneration Technologies in Housing. Sponsored by EDF France (Energy du France).

Barrett, P. (2007 – date). Leading a £41M, eight year (initially) consortium around a Framework for Innovation and Research in MediaCityUK. The core consortium involves: BBC, Cambridge University, Goldsmiths University, Lancaster University, MIT, North West Vision and Media and Salford University. Funding is being sought from EPSRC, ESRC, AHRC, TSB, NWDA, industry and the EU.

Fernando, T. (2007 – 2010). Technical Director of the CoSpaces project (Innovative Collaborative Work Environments for Design and Engineering): an IP project funded by the EC under FP6 (some 20 partners spread across the EU including industrial partners).

Khosrowshahi, F. (2010). Leader of a European funded Project TEMPUS I (European Commission Education & Training Programme: Tempus: modernising higher education in EU neighbours). Partners are: University of Salford, Damascus University, University of Lyon and Technical University of Denmark.

Kulatunga, U. (2010). Principle investigator for INSPIRE exploratory grant funded by the British Council with the international partner Patuakhali Science and Technology University, Bangladesh.

Pathirage, C., Amaratunga, D., Haigh, R. & Baldry, D. (2009). ISLAND (Inspiring Sri Lankan Renewal and Development), RICS, Knowledge Management and Disaster Management- phase II project.

International research collaborations

Amaratunga, D., Haigh, R. & Kulatunga, U. Network for Disaster Risk Reduction in the Built Environment, Lifelong Learning Erasmus Multilateral Projects – Virtual Campuses, with University of Calgary and University of Vilnius, €420,000, 2010. Not funded

Amaratunga, D. & Haigh, R., Strategic partnership with UNDP (United Nations Development Programme) with Centre for Disaster Resilience being endorsed by UNDP, 2010.

Amaratunga, D. & Haigh, R., Promoting conflict transformation and peace building through construction alliances, international partner on Chamber of Construction Sri Lanka led USAID funded programme, 2009 – 2012.

Amaratunga, D. & Haigh, R., CONFLICT TRANSFORMATION AND PEACE BUILDING THROUGH VOCATIONAL TRAINING OF YOUTH IN THE EAST OF SRI LANKA, international partner on Chamber of Construction Sri Lanka led USAID funded programme 2009 – 2012.

Amaratunga, D., Keraminiyage, K. & Thayaparan, M., "SKILDOMAIN" bid submitted for the LIFELONG LEARNING PROGRAMME 2007 – 2013, Call EACEA/10/2010, Support For European Cooperation In Education And Training (ECET) – International Partners Include Tallinn Institute Of Technology, Estonia and Vilnius Gedminas Technical University, Lithuania, Northumbria University, UK, Universita' Degli Studi Della Tuscia, Italy. Awaiting results, 2010.

Amaratunga, D. & Haigh, R., Initiated research partnerships with York University, Canada (Centre for Refugee Studies, Institute for Research and Innovation in Sustainability, Foundation for Sustainable Enterprise and Development) and Cape Higher Education Consortium (CHEC), South Africa and Disaster Mitigation for Sustainable Livelihoods Programme at University of Cape Town, South Africa under the guidance of the Vice Chancellor. 2009 – 2010.

Amaratunga, D. & Pathirage, C. Post conflict Reconstruction for Ethnic Sri Lankan Communities Returning Innovative Beneficial Effects (PRESCRIBE). ELRHA small grant scheme. £ 40,000; 2009. Not funded.

Amaratunga, D. & Haigh, R., SLIPSTREAM - European Commission's Socio-economic measures for conflict-affected IDP returnees and host communities call, €7.9million bid that was unsuccessful. Partnership – Chamber of Construction Sri Lanka, University of Salford and Sarvodaya Sri Lanka. 2009. Not funded.

Amaratunga, D., Haigh, R. & Pathirage, C. INSPIRE: International Strategic Partnerships in Research and Education, British Council - BACCALAUREATE (Bangladesh Advancement in Climate Change Academic Learning, Awareness, Understanding, and REseArch Through Empowerment), British Council. Not funded International Strategic Partnerships in Research & Education Programme, 50K, November 2008, proposal with Department of Environmental Science and Disaster Management, Patuakhali Science and Technology University, Dumki, Patuakhali-8602, Bangladesh, 2009. Not funded.

Arif, M., Member of International Association of Systems Engineering which is promoted by IBM and will be working with international partners in the future on research dealing with Systems Engineering in the Built Environment.

Haigh, R. & Amaratunga, D., UK partner and member of the International Institute for Infrastructure Renewal and Reconstruction (IIIRR). IIIRR is a multi-university international consortium which provides overall leadership in research, education, planning, design and implementation for mitigation of the impact of natural disasters and infrastructure renewal and reconstruction projects in tsunami affected or underdeveloped regions.

Haigh, R., Amaratunga, D. & Hall, M., SYNDICATE (Sri Lankan Youth ENGagement and Development of Infrastructure in Conflict Affected TERRitories) ESRC-DFID Joint Scheme for Research on International Development (Poverty Alleviation) Phase II – Call 2. International research partnership with University of Colombo, Sri Lanka, UNDP Sri Lanka, Chamber of Construction Sri Lanka and Department of Physical Planning, Sri Lanka, 2010.

Haigh, R., Amaratunga, D., Ruddock, L. & Hall, M., PRINCIPAL (Post-conflict Reconstruction of Infrastructure Nurturing Community Initiatives for Poverty Alleviation in Sri Lanka). ESRC-DFID Joint Scheme for Research on International Development (Poverty Alleviation) - Phase 2. International research collaboration with University of Peradeniya and Eastern University of Sri Lanka and 15 other project partners. Amount £ 0.5 million.

Haigh, R. & Amaratunga, D., SLIPSTREAM II – French Red Cross, €6,568,327 bid that was unsuccessful. Measures for conflict affected IDPS in Sri Lanka. Proposal with Chamber of Construction Sri Lanka, 2009.

Haigh, R. & Amaratunga, D., CAROUSEL - Application of Principles of Corporate social Responsibility in support of sustainable production for post disaster re-construction, European Commission's SWITCH-Asia Promoting Sustainable Consumption and Production call, €1.5 million bid that was unsuccessful.

Haigh, R. & Amaratunga, D., DEDICATE - Development of Enhanced District Infrastructure for the Conflict-Affected through Training for Empowerment, European Commission Non-State Actors in Development, €250,000 bid that was unsuccessful.

Fernando, T., Technology development partnership with COWI company (Denmark) (current).

Khosrowshahi, F., Leader of a European Project TEMPUS III (European Commission Education & Training Programme Tempus: modernising higher education in EU neighbours), awaiting the result.

Khosrowshahi, F., Part of the CoSpaces (Innovative Collaborative Work Environments for Design and Engineering). An IP project funded by the EC under FP6 (some 20 partners spread across the EU including industrial partners). (2007 – 2010).

Koskela, L., Collaboration with Aalto University, Finland, on Lean Facilities Management, April 2010.

Koskela, L., Collaboration with VTT Technical Research of Finland on Lean Retrofit, June 2010.

Koskela, L., Research period and strengthening links with CIFE (Center for Integrated Facilitated Engineering), University of Stanford, USA, August 2009.

Owen, R., Coordinator of CIB PriorityTheme involving leadership of the construction global research agenda. (Members are: Assoc Prof Robert Amor (recent Head of Computer Science, University of Auckland, New Zealand); Dr John Dickinson (National Research Council, Canada); Dr Bill East (ERDC-CERL, US Army Corps of Engineers, USA); Makoto Kataoka (Shimizu, Japan); Prof 'Sami' Kazi (VTT, Finland); Prof Kerry London (Deakin University, Australia); Dr Anita Moum (Sintef, Norway); Mark Palmer (National Institute of Standards and Technology, USA); Assoc Prof Matthijs Prins (Delft Technical University, The Netherlands); Prof Tom Regan (Texas A&M University, USA). Engagement of industry and Governments.

Owen, R., Inclusion on Autodesk strategic thinktank on next generation technology drivers with Harvard, Stanford and Yale, USA.

Pathirage, C., University of Salford Coordinator, MASTERBLEND (Moratuwa And Salford Teamwork for Researching Built Environment Development) collaboration.

Powell, J., Global study on the leadership, governance and management of senior academic entrepreneurs in their development of higher academic enterprise, or what others refer to as University Reach-out or the 'third mission'; this was based on a funded EPSRC, HEFCE and CIHE study of 16 exemplary British leaders and will now further explore successful other senior academic leaders from other cultures.

Powell, J., The development, evaluation and implementation of a portfolio of postgraduate and industry based 'knowledge transfer programmes' for the Government of the Czech Republic.

Powell, J., A structured evaluation, open learning and coaching framework to drive traditional academics to become more enterprising, known as UPBEAT, or the University Partnership for Benchmarking Enterprise and Associated Technologies. This has been developed by PASCAL International Observatory to produce guidelines which will enable the University for a Modern Renaissance to be used in an approach to assess Universities who want to be validated using the UPBEAT process.

Powell, J., New leadership developments for the Board of 'Unlimited Potential' and a possible development of senior citizens on a social enterprise, to be known as 'Silver Potential' for Helsinki City and the Aalto University, Finland.

Ruddock, L., Development of EU Framework bid with colleagues at VTT, University of Bremen, CSTB and Technical University of Delft.

Underwood, J., Research bidding: FP7-2010-NMP-ENV-ENERGY-ICT-EeB, Visualisation of Integrated Energy Data Workflows (VIEW ENERGY) - €2,939,479. Project partners included University of Applied Sciences Stuttgart (Germany), Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung (Germany), Südwestrundfunk (Germany), Centre Internacional de Mètodes, Numèrics en l'Enginyeria (Spain), Controlli Ibèrica (Spain), Generalitat de Catalunya (Spain), Ove Arup & Partners Limited (UK), Bentley Systems Europe (Netherlands), and Sofia Energy Agency (Bulgaria).

Marvin, S., May, T., Perry, B. & Hodson, M. (SURF), Commissioned to undertake research by the Mistra Foundation, Sweden in the area of urban development/sustainable development (2008 to date).

Marvin, S., May, T., Perry, B. & Hodson, M. (SURF), A founder member (only UK/European partner) in The Centre of Excellence for Sustainable Urban Futures (launched March 2010). SURF played a critical role in the conception and development of this centre. Currently working on international collaborative research projects, developing an International Framework agreement.

Marvin, S., May, T., Perry, B. & Hodson, M. (SURF), Involvement in European Research Projects – currently involved in: 'Changing Behaviour' European Commission Framework 7 project: looking at relationships between energy demand management programmes; 'Laboratoire Techniques Territoires Societes (LATTTS): research network to understand how territorial knowledge is constructed and applied in states with highly dominant capital cities; and 'OECD's Regional Review of Innovation Programme:

team of international experts addressing demand for greater clarity on how to strengthen the innovation capacity of regions.

International conferences, workshops and other networks

Conferences

Abbott, C., Joint organiser of the Managing Construction for Tomorrow International Conference, Istanbul, Turkey, 1-3 October 2009.

Amaratunga, D. & Haigh, R., International Conference on Sustainable Built Environment (ICSBE), 13th and 14th December 2010, Faculty of Engineering, University of Peradeniya and Earl's Regency, Kandy, Sri Lanka.

Amaratunga, D., Keraminiyage, K. & Pathirage, C., Member of the organisation committee, The Royal Institution of Chartered Surveyors (RICS) Annual International Conference (COBRA) 2010, Disaster Management stream, Dauphine Université Paris, France, on 2-3 September 2010.

Amaratunga, D. & Haigh, R., Member of the conference organising committee, International Institute for Infrastructure Renewal & Reconstruction international conference, University of Hawaii, USA, September 2010.

Amaratunga, D., Member of the conference organising committee, Construction Research Congress 2010. Innovation for reshaping construction practice, May 2010, University of Alberta, Canada.

Haigh, R., Member of the conference organising committee, International Institute for Infrastructure Renewal & Reconstruction International Conference, USA, November 2010 .

Kagioglou, M., Co-Chair of the 4th International Research and Innovation Symposium, The Lowry, Salford Quays, UK, 2009.

Khosrowshahi, F., Co-chair , Information Visualisation Annual conference in London & Sidney, July 2010.

Khosrowshahi, F., Co-organizer of 2 Construct IT meetings with international presence (1) Sustainability: The Impact & Challenges, May 2010, (2) The Challenge and Opportunity of ICT Investment & Strategy in the Economic Downturn, November 2009.

Khosrowshahi, F., Sponsor and Co-Organiser of the Salford/Constructing Excellence/ BIS workshop on Whole Life Evaluation and Design Workshop - with

international presence, September 2009 (London) at the Department of Business, Innovation & Skills. Owen, R., Chair of Eracobuild (Strategic Networking of RDI programmes in construction and operation of buildings) inter-governmental conference.

Workshops

Abbott, C., Joint Co-Ordinator of CIB Task Group 76 'Recognising Innovation'. Task Group Meetings held in Dubrovnik, Croatia, October 2009 and Salford May 2010. International membership of 40 academics.

Amaratunga, D., Workshop on "Capacity Development for a Resilient Built Environment", United Nations Development Programme (UNDP) National Training Workshop on Disaster Risk Assessment and Management for the Coastal Zone of Sri Lanka: Developing a knowledge base on Hazards, Vulnerabilities and Capacities for Disaster Risk Reduction, Kandy, Sri Lanka, June 2010.

Arif, M. & Egbu, C., Green Project Management: What is needed in Indian Construction Sector, Chennai, India, 2010.

Arif, M., 2009, Hosted a workshop in Malaysia looking at issues in Industrialized Building Systems.

Arif, M., 2009, Hosted a workshop in Salford with researchers from across the globe on research in green construction for the future.

Arif, M., 2009, Hosted an online workshop on 23 July 2010 with researchers from across the globe on the future of research in offsite construction.

Eaton, D., 2010, Leader/Organizer of E-BuHu Master Class, 8th-22nd April 2010 in Sarkarya and Istanbul, Turkey. The Master Class was attended by over 70 students from the Czech Republic, Portugal, Republic of Ireland, Turkey, and UK.

Haigh, R. & Amaratunga, D., 2010, International Workshop on Disaster Risk Reduction and Resilient Cities, Batticaloa, Sri Lanka, June 2010. Resilient Cities Initiative 2010 - 2011. United Nations International Strategy for Disaster Reduction (UNISDR).

Haigh, R., 2010, Workshop on "Stakeholder Identification and Engagement", United Nations Development Programme (UNDP) National Training Workshop on Disaster Risk Assessment and Management for the Coastal Zone of Sri Lanka: Developing a knowledge base on Hazards, Vulnerabilities and Capacities for Disaster Risk Reduction, Kandy, Sri Lanka, June 2010.

Haigh, R. & Amaratunga, D., 2009, Workshop entitled "Capacity building for rehabilitation and reconstruction", Annual International Conference on impact of natural hazards and disasters on social & economic infrastructure development, organised by the Infrastructure Institute for Renewal & Reconstruction, Ahungalla, Sri Lanka, July 2009.

Ruddock, R., 2010, CIB W55 Workshop: Construction and the Economic Crisis, Dubrovnik, Croatia, September 2009.

Ruddock, R., 2010, CIB W55 Workshop, World Congress 2010, Salford, UK.

Ruddock, L., 2010, Doctoral Workshop, Chair, RICS COBRA 2010 Research Conference (Annual construction, building and real estate research conference), Dauphine Université Paris, France, on 2-3 September 2010.

Other networks

Chynoweth, P., Founder and Leader, BEL-NET (Built Environment Law Network).

Session lead at conferences

Amaratunga, D., 2010, Theme leader, CIB TG 53 postgraduate research, CIB World Congress, Salford Quays, Salford, UK, May 2010.

Amaratunga, D., 2010, Session chair on "Disaster Management". INTERNATIONAL RESEARCH CONFERENCE ON SUSTAINABILITY IN BUILT ENVIRONMENT, The Commonwealth Association of Surveying and Land Economy (CASLE) UK and Building Economics and Management Research Unit (BEMRU), Department of Building Economics, University of Moratuwa, Sri Lanka, June 2010.

Amaratunga, D., Theme Lead – Disasters, Construction Research Congress 2010. Innovation for reshaping construction practice, May 2010, University of Alberta, Canada.

Haigh, R., 2010, Theme leader, CIB Task Group 63 (Disasters and the Built Environment) and member of the organisation committee, CIB World Congress, Salford Quays, Salford, UK, May 2010.

Appointments to international roles, committees and networks committees

Advisory roles

Barrett, P., Visiting Scholar, Centre for Facilities Engineering, Stanford University, USA, 2009.

Chynoweth, P., Member, Conference Advisory Board, Royal Institution of Chartered Surveyors Annual COBRA Research Conference.

Kiviniemi, A., Member of TAG (Technical Advisory Group) of buildingSMART International.

Kiviniemi, A., Member of the Advisory Committee of buildingSMART Korea.

Koskela, L., Appointment as Adjunct Professor at Tampere Technical University, Finland, Sept 2009 onwards.

Powell, J., Executive of the International Advisory Board for the Aalto Camp for Societal Innovation, Unlimited Potential and Peoples' Voice Media.

Marvin, S., May, T., Perry, B. & Hodson, M. (SURF), SURF's expertise has resulted in requests to provide strategic expert advice to a number of international research and policy networks, for example: New European Network to Develop Capacity in Researching Sustainability Transitions; COST Action – Integrated Assessment Technologies to Support the Sustainable Development of Urban Areas; European Network on Urban Knowledge Arenas; EPSRC Dongtan Sustainable City Network; The Embedded University; Mistra (Swedish Research Foundation); Advice to research councils in the U.K., as well as Sweden and Switzerland; Trans-Atlantic Forum on the Future of Universities.

International panel memberships

Abbott, C., Europe Innova: Member of Sectoral innovation foresight panel: key drivers, innovation themes & emerging markets, June 2009.

Barrett, P., Member of the Executive Committee of the European Construction Technology Panel responsible for guiding strategy implementation (2008-date).

Barrett, P., Member of European Construction Technology Panel, High Level Group (HLG) responsible for creation of a Strategic Research Agenda that is informing FP7 (2005 – date).

Barrett, P., Invited international Board Member for the International Construction Technology Information Institute (NPO) led by Shimizu in Japan (2004 – date).

Khosrowshahi, F., Member of the ECCREDI Council (The European Council for Construction Research, Development and Innovation) .

Khosrowshahi, F., Committee member of ECTP (European Construction Technology Platform) IT and Automation panel.

Kiviniemi, A., Member of BIM (Building Information Modelling) Steering Committee of ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers).

Kiviniemi, A., Member of Academic Research Committee of FIATECH (Fully Integrated and Automated Technology).

Koskela, L., International Group for Lean Construction – founding and continuing member and European Group for Lean Construction – founding and continuing member.

Medjdoub, B., Invited as external critic at the research by design postgraduate student progress reviews at the School of Architecture, the Royal Melbourne Institute of Technology (RMIT), Australia, 2009.

Pathirage, C., Stakeholder group member, Enhancing Learning and Research for Humanitarian Assistance (ELRHA) project, Save the Children.

Powell, J., Development of notion 'Universities for a Modern Renaissance' with Board Members of the PASCAL International observatory, this idea will be used to focus this international organization develop its strategy for university engagement.

Powell, J., Board Member of the PASCAL International Observatory on place management, social capital and learning regions.

Ruddock, L., Member of the World Bank Researchers Alliance.

Siriwardena, M., International advisor to "Construction Quality and Continuous Improvement Research Group", Department of Building Economics, University of Moratuwa, Sri Lanka.

Tzortzopoulos Fazenda, P., EGLC – European Group for Lean Construction: founding member (2005), organiser of meetings, participating at meetings (held twice a year).

Tzortzopoulos Fazenda, P., Founding member of the Latin American association of construction management and economics (since 2006).

Coordinator roles

Abbott, C., Joint Co-Ordinator of CIB Task Group 76: Recognising Innovation. International membership of 40 academics.

Amaratunga, D., Coordinator of the CIB TG53 postgraduate research training in building and construction (until May 2010).

Arif, M., Coordinator, CIB Task Group on New Production and Business Models in Construction (TG74).

Barrett, P., Champion for CIB Proactive Theme in the area of Revaluing Construction – has already led to significant changes to UK and EU research strategies for construction (2002 – date).

Chynoweth, P., Founding Coordinator, CIB Working Commission (W113) on Law and Dispute Resolution.

Haigh, R., Joint Coordinator of the CIB TG 63 Disasters and the built environment (until May 2010).

International scientific committees

Amaratunga, D., Chynoweth, P., Haigh, R., Keraminiyage, K., Pathirage, C. & Siriwardena, M., Members of the international scientific committee of CIB Triennial World Building Congress 2010. University of Salford, UK, 10 – 13 May 2010.

Amaratunga, D., Haigh, R., Kulatunga, U., Ingirige, B., Member of the international scientific committee, RICS Construction, Building and Real Estate International Research conference (COBRA 2010), September 2010, Paris, France.

Amaratunga, D., International advisory committee, International Conference on Sustainable Built Environment (ICSBE), 13th - 14th December 2010, Faculty of Engineering, University of Peradeniya, Sri Lanka. This is a joint collaboration between Universities of Moratuwa, and Peradeniya in Sri Lanka and University of Melbourne in Australia.

Amaratunga, D. & Haigh, R., Member of the international scientific committee, international research conference on sustainability, The Commonwealth Association of Surveying and Land Economy (CASLE) and Building Economics and Management Research Unit (BEMRU), Department of Building Economics, University of Moratuwa, Sri Lanka, June 2010. Leader, Disaster Management theme, RICS Construction, Building and Real Estate International Research conference (COBRA 2010), September 2010, Paris, France.

Amaratunga, D., Chairman of the international scientific committee, postgraduate research training and education stream, CIB World Congress, Salford Quays, UK, 2010.

Amaratunga, D., Technical co-chair, Disaster Management, Construction Research Congress 2010, Innovation for Reshaping Construction Practice, The Construction Institute of the American Society of Civil Engineers and the University of Alberta, Canada. 8-10 May 2010, Banff, Canada.

Amaratunga, D., Member of the international scientific committee, Construction Research Congress 2010. Innovation for reshaping construction practice, May 2010, University of Alberta, Canada.

Amaratunga, D., International scientific committee member, Associated Schools of Construction, 46th Annual International Conference on "Building a global vision", Boston, USA, April 2010.

Amaratunga, D., International Organising committee member, CIB international conference on Changing Roles - new roles and new challenges, Delft, The Netherlands, 2009.

Amaratunga, D., Chairman of the international steering committee, Sri Lanka Facilities Management international symposium, University of Moratuwa, Sri Lanka. June 2009.

Amaratunga, D., International scientific committee member, CIB 2009 - Joint International Symposium of CIB Working Commissions: W055: Building Economics & W065: Organization and Management of Construction - Dubrovnik, Croatia, 27 September-1 October 2009.

Amaratunga, D., Member of the International Consortium for Social Development Strategic Research Committee.

Chynoweth, P., Member of the international scientific committee of COBRA 2006 - 2010: Royal Institution of Chartered Surveyors, Annual COBRA (construction, building and real estate) Research Conferences: 2006 (London, UK); 2007 (Atlanta, USA); 2008 (Dublin, Ireland); 2009 (Cape Town, South Africa); 2010 (Paris, France).

Chynoweth, P., Member of the international scientific committee of IPGRC 2003 - 2009: Research Institute for the Built & Human Environment (BuHu) Annual International Postgraduate Research Conferences, University of Salford: 2003; 2004; 2005; 2006; 2007; 2008; 2009.

Chynoweth, P., Member of the international scientific committee of ISEC-5: 5th International Structural Engineering and Construction Conference 2009. American Society of Civil Engineers, Canadian Society for Civil Engineering, Japan Society of Civil Engineers, and Structural Engineering Institute, University of Nevada, Las Vegas, USA, 21 - 27 September 2009.

Chynoweth, P., Member of the international scientific committee of MC4T: Managing Construction for Tomorrow Conference 2009.

Faculty of Architecture, Istanbul Technical University, Istanbul, Turkey, 7 - 9 October 2009.

Chynoweth, P., Member of the international scientific committee of ISEC-6: 6th International Structural Engineering and Construction Conference 2011. American Society of Civil Engineers, Canadian Society for Civil Engineering, Japan Society of Civil Engineers, and Structural Engineering Institute, Zurich, Switzerland, 21 - 26 June 2011.

Kiviniemi, A., Member of IDDS (Integrated Design and Delivery Systems) and W78 (IT in Construction) of CIB (International Council for Research and Innovation in Building and Construction).

Kiviniemi, A., Member of International Scientific Committees of iccbe2010 (international conference on computing in civil and building engineering) and the eg-ice10 (intelligent computing in engineering) Workshop in Nottingham (June 2010), ECPPM 2010 (European Conference on Product & Process Modelling in the Building Industry) in Cork, Ireland (September 2010), and CIB W078 & W102 Joint Conference in Sophia Antipolis, France (October 2011).

Tzortzopoulos Fazenda, P., Reviewer of international conferences: ENTAC - Brazilian conference on the built environment (since 2005); SBPQ - Simposio Brasileiro de qualidade no projeto (Brazilian symposium on design quality) since 2008.

Strategic international partnerships

Institution	Current progress	Champion
AUSTRALIA University of Queensland	Research collaboration	Dilanthi Amaratunga & Richard Haigh
AUSTRALIA Queensland University of Technology	Long term research collaborations	Dilanthi Amaratunga & Richard Haigh
AUSTRALIA Queensland University:	Development of joint architectural education programme	Arto Kiviniemi
AUSTRIA FH-Johanneum, Graz	Erasmus Exchange - On going. 5 outgoing (year 3 BSc Construction Management) September – January. 4 incoming (final year construction engineering) September - January	Monty Sutrisna and Andy Turner
BANGLADESH Patuakhali Science and Technology University	Staff and student exchanges, joint curriculum development, research collaborations	Dilanthi Amaratunga & Udaya Kulatunga
CANADA University of Calgary	Long term research collaborations	Dilanthi Amaratunga & Richard Haigh
CANADA University of British Columbia	Research partnership	Dilanthi Amaratunga & Richard Haigh
CANADA York University	Research collaborations	Dilanthi Amaratunga & Richard Haigh
CHINA (1) Beijing University of Civil Engineering and Architecture (2) Chongqing University	MOU with Beijing University of Civil Engineering and Architecture (at university level) signed April 2009 (signed by Ghassan Aouad, PVC, and Professor Song Guohua (Vice President, Beijing University of Civil Engineer and Architecture) MOU with Chongqing University (at university level) signed April 2009 (signed by Ghassan Aouad, PVC, and Professor Zongyi Zhang (Vice President, Chongqing University)	Song Wu
CZECH REPUBLIC CVUT (Czech Technical University, Prague)	Erasmus/Socrates Exchange	David Eaton
ESTONIA Tallinn University of Technology	Staff and student exchanges, long term research collaborations	Les Ruddock, Dilanthi Amaratunga & Richard Haigh

FINLAND RYM (Built Environment Innovations)	Preliminary agreement as International Research Partner in "BIM- based Product Data Management in Industrialized Construction Supply Chain" project	Arto Kiviniemi
GREECE Greece National Technical University of Athens	Erasmus agreement	Mike Kagioglou
IRAN Tehran University	General collaboration/research	Farzad Khosrowshahi
ITALY Politecnico di Torino, (Facolta' di Architettura 1 and Dipartimento Casa-citta')	Draft of MOU at University level (through SOBE).	Riccardo Balbo
LIBYA Garyounis University, Benghazi	Teaching and research collaborations	Les Ruddock
LIBYA Academy of Graduate Studies, Tripoli	Teaching and research collaborations	Les Ruddock
LIBYA Al Fateh University, Tripoli	Teaching and research collaborations	Les Ruddock
LIBYA Petroleum Training and Qualifying Institute, Tripoli	Teaching and research collaborations	Les Ruddock
LITHUANIA Vilnius Gediminas Technical University	Staff and student exchanges, long term research collaborations	Les Ruddock , Dilanthi Amaratunga & Richard Haigh
MALAYSIA UitM - Universiti Teknologi Mara	Research and curriculum development collaboration, staff student exchange and progression under enhanced terms to PhD for staff. The agreement was expanded into a tripartite arrangement to involve CIDB Malaysia in furtherance of the Malaysian government construction industry development plan	Charles Egbu
MALAYSIA UTM (Universiti Teknologi Malaysia)	To encourage research and curriculum development collaboration, staff student exchange and progression under enhanced terms to PhD for staff. The agreement is nominally institution wide but has been active only in Built Environment areas.	Ghassan Aouad
MALAYSIA UM (University of Malaysia)	To encourage research and curriculum development collaboration, staff student exchange and progression under enhanced terms to PhD for staff.	Brian Meichen
MALAYSIA INTI (INTI International University College, Malaysia)	INTI College Malaysia and UCU college Malaysia – both continue to provide many students under advanced entry arrangement to year 2 of our QS programmes all with good progression.	Brian Meichen

MALAYSIA Taylors College (Malaysia)	Relationship mainly centres on advanced entry of Taylors students to SOBE undergraduate programmes in QS. Steady strong stream of very able students each year. Excellent progression rates in SOBE programmes. SOBE has visited often to present on SOBE programmes and to support local agent network in recruiting.	Brian Meichen
MALAYSIA UCU College (Malaysia)	INTI College Malaysia and UCU College Malaysia – both continue to provide many students under advanced entry arrangement to year 2 of our QS programmes all with good progression.	Brian Meichen
NEPAL SUTRA Centre for Development Education and Research	Industry links and research collaboration	Dilanthi Amaratunga & Richard Haigh
NEPAL Kadambari Memorial College of Science and Management	Research collaborations	Dilanthi Amaratunga & Richard Haigh
NETHERLANDS TU Delft	Research collaborations	Mike Kagioglou
NEW ZEALAND Resilience Organisations	Research collaboration	Dilanthi Amaratunga & Richard Haigh
NORWAY Statsbygg (Norwegian Government Agency managing real estate portfolio)	Preliminary agreement as International Research Partner in “BIM-based Client Requirements Management” project.	Arto Kiviniemi
SRI LANKA University of Moratuwa	Long term partnership, a signed MoU, research collaboration and teaching programme, staff exchanges, conference organisation etc.	Dilanthi Amaratunga & Richard Haigh
SRI LANKA University of Colombo	Research collaboration	Dilanthi Amaratunga & Richard Haigh
SRI LANKA Colombo School of Construction Technology	Teaching programme development – full affiliation	Dilanthi Amaratunga
SRI LANKA Chamber of Construction Industry Sri Lanka (CCI)	Long term industry engagement activities, joint research programmes, seminars and workshop organisation	Dilanthi Amaratunga & Richard Haigh
SRI LANKA University of Ruhuna	Staff and student exchanges, term research collaborations	Dilanthi Amaratunga & Richard Haigh

SRI LANKA University of Peradeniya	Long term research collaborations	Dilanthi Amaratunga & Richard Haigh
SRI LANKA Eastern University of Sri Lanka	Research collaborations	Dilanthi Amaratunga & Richard Haigh
TURKEY Sakarya		David Eaton
TURKEY Middle East Technical University (METU), Ankara	Is seen as a tier one and accordingly contact is at the University level	Tuba Kocaturk
SYRIA University of Damascus	Research collaboration	Farzad Khosrowshahi
UNITED ARAB EMIRATES Al Hosn University, Abu Dhabi	Partnership Liaison. MOU signed 2010 by the VC.	Mike Kagioglou
USA Texas A&M University	Exchange agreement	Andy Turner and Monty Sustrisna
Indiana State University	<p>Draft MOU. Interaction included/includes:</p> <ul style="list-style-type: none"> Acted as Expert Advisors on their proposal to establish a Built Environment Department Agreed access to our Masters modules for their Masters students by distance learning A Visiting Faculty Member (academic) from SOBE to work at ISU in Semester 2 of 2010/11 to advise on the development of the Built Environment Department Possible exchanges of administrative staff Joint bid to British Council for funding under their UK-US New Partnership Fund scheme <p>MOU covers:</p> <ul style="list-style-type: none"> Joint research activities Development activities in the delivery of the University of Salford programmes Joint teaching and the development of new degree and training programmes Visits by and exchange of staff and graduate students for research, teaching and discussions Exchange of information including, but not limited to, and where possible (taking into consideration pre-existing rights, contracts and confidentiality agreements) exchange of library materials and research publications Development of student progression pathways 	Gerard Wood and Mike Kagioglou
OTHER Royal Institution of Chartered Surveyors (RICS)	Research collaboration to hold disaster management theme papers at the RICS COBRA annual conferences	Dilanthi Amaratunga & Chaminda Pathirage

OTHER UNDP (United Nations Development Programme)	Research partnership and training programmes	Dilanthi Amaratunga & Richard Haigh
OTHER UNISDR (United Nations International Strategy for Disaster Reduction)	Academic partnership, advisory panel input - resilient cities campaign	Dilanthi Amaratunga & Richard Haigh

Specific measures that have been taken to increase international student recruitment

Professional institutions' engagement

Amaratunga, D., Acting as the UK representative of the Sri Lanka Institute of Quantity Surveyors with the responsibility of promoting educational and other opportunities for Sri Lankan based Quantity Surveyors.

Amaratunga, D., Working with the Royal Institution of Chartered Surveyors in accrediting the school's MSc Degree programme in Disaster Mitigation and Reconstruction which will in turn have an influence on international student numbers who want to follow the course.

Industry engagements

Chynoweth, P., Annual Professional Doctorate Information Day in Republic of Ireland.

Chynoweth, P., Academy of Sciences, Malaysia – Ongoing Discussions with the Industrial PhD Working Committee re Professional Doctorate Provision.

Keraminiyage, K., Briefed, in the capacity of acting programme director for the BSc (Quantity Surveying) programme, the visiting group from ICBT (International College of Business & Technology Ltd), Sri Lanka, about the BSc (Quantity Surveying) programme at the School of the Built Environment, effectively strengthening the current relationship and promoting future recruitments (May 2010).

Specific language support

Milburn, M., English language tuition and support to international PhD students through weekly classes, individual support and one-off trainings.

Publications co-authored with international partners

Books

Brandon, P. (2010). 2nd edition of 'Evaluating Sustainable Development in the Built Environment'

with co-author, Professor Patrizia Lombardi of Turin Polytechnic, Italy.

Marvin, S., May, T. Perry, B. & Hodson, M. 'Request by the Dag Hammarskjöld Foundation' – SURF was asked to contribute a chapter on its urban research to a new report on climate change and justice that was released at the 15th international climate summit in Copenhagen, Denmark.

Journal papers

Arif, M., Egbu, C., Al Shawi, M., Srinivas, S., and Tariq, M., (2010). Promoting Green Construction in India Through Industry-Academia Collaboration, ASCE's Journal of Professional Issues in Engineering Education and Practice, 136(3), 128-131.

Arif, M., Egbu, C., Haleem, A., Kulonda, D., and Khalfan, M., (2009). State of Green Construction in India: Drivers and Challenges, Journal of Engineering Design and Technology, 7(2), 223-234. (Highly Commended Award Winner at the Literati Network Awards for Excellence 2010)

Arif, M., Egbu, C., Haleem, A., Ebohon, J., and Khalfan, M., (2009). Green Construction in India: Gaining a Deeper Understanding", ASCE Journal of Architectural Engineering, 10-13, March 2009.

Arif, M., Egbu, C., Alom, O., and Khalfan, M.M.A.,(2009). Measuring Knowledge Retention: A Case Study of a Construction Consultancy in the UAE, Engineering Construction and Architecture Management, 16(1), 92-108.

Erdogan, B., Abbott, C., Aouad, G., Kazi, S* (2009). Construction IT in 2030: A Scenario Planning Approach ITcon Vol 14 pp 540-555 (<http://www.itcon.org/2009/35>). (*VTT Finland).

Forgues, D and Koskela, L J (2009). The influence of a collaborative procurement approach using integrated design in construction on project team performance', International Journal of Managing Projects in Business, 2 (3) , pp. 370-385.

- Kaklauskas, A., Amaratunga, D. & Haigh, R. (2009). Knowledge Model for Post-disaster Management, *International Journal of Strategic Property Management*, Special issue on Capacity building for post disaster infrastructure development and management, Vol. 13, No. 2, p. 117-128.
- Karunasena, G., Amaratunga, D., and Haigh, R. (2009). Post Disaster Waste Management Strategies in Achieving Sustainable Built Environment, *FARU Journal: Research Journal of the Faculty of Architecture*, 01(01), 44-55.
- Karunasena, G., Amaratunga, D. & Lill, I. (2009). Post disaster waste management strategies in developing countries: Case of Sri Lanka', *International Journal of Strategic Property Management*, Special issue on Capacity building for post disaster infrastructure development and management, Vol. 13, No. 2, p. 171-190.
- Khalfan, M, Arif, M., Asad, S., and Kashyap, M., (2010). Implementing Innovation Within the UK Construction Industry, *Journal of Quantity Surveying & Construction Business*, 1(1).
- Khalfan, M.M.A, Arif, M. and Aburas, H. M., (2009). Integration of Suppliers and Manufacturers within Construction Supply Chains through Innovative Procurement Strategies, *Journal of King Abdul Aziz University Engineering Science*, 19(2), 73-89. Outstanding Paper Award Winner at the Literati Network Awards for Excellence 2010.
- Khalfan, MM*, Abbott, C, Li, X, Kashyap, M. (2010). Knowledge Management in Construction Supply Chains, *International Journal of Networking and Virtual Organisations* Vol 7, (2/3) pp 207 – 221 (*RMIT).
- Kulonda, D., and Arif, M., (2009). Small Enterprise Systems Based on Document Methodology, Non-Linear Analysis Theory Methods and Applications, 71(12), 651-656.
- Potbhare, V., Syal, M., Khalfan, M., Arif, M., and Egbu, C., (2009). Emergence of Green Building Guidelines in India and their Comparison with Developed Countries, *Journal of Engineering Design and Technology*, 7(1), 99-121.
- Ruddock, L., Amaratunga, D., Palliyaguru, R. & Wanigaratne, N. (2010). Post-tsunami Reconstruction in Sri Lanka: Assessing the Economic Impact. *International Journal of Strategic Property Management* (Volume 14, No.2, 2010)
- Sacks, R, Koskela, L J, Dave, B A and Owen, R (2010). The interaction of lean and building information modeling in construction', *Journal of Construction Engineering and Management*, 136 (9), pp. 968-980.
- Stratton, R, Koskela, L. Alsehaimi, A & Koskenvesa, A. (2010). Applying manufacturing flow theory to construction management. *EurOMA 2010, Porto*.
- Tillmann, Patricia; Tzortzopoulos, Patricia; Formoso, Carlos T. (2010). Redefining Healthcare Infrastructure: Moving Toward Integrated Solutions. *Health Environments Research and Design Journal*. January 2010.
- Tillmann, Patricia; Tzortzopoulos, Patricia; Formoso, Carlos T. (2010). Gestão de benefícios na etapa de projeto em empreendimentos hospitalares do reino unido (Managing Benefits in the Design of Healthcare Facilities in the UK) *Revista gestao de projeto* (to be published).

In conference proceedings

Ballard, G & Koskela, L. (2010). Design should be managed as a physical process, too. *International Conference on Engineering Design, ICED'09*. 24 – 27 August, 2009, Stanford University, USA

Hadiwattege, C. De Silva, L. and Pathirage, C P., (2010). Corruption in Sri Lankan Construction Industry. In the proceedings of *Building a Better World - CIB 2010 World Congress*, 10-13 May 2010 Salford Quays - United Kingdom.

Kaklauskas, A., Amaratunga, D. & Lill, I. (2010). The life cycle process model of an efficient construction manager. In the proceedings of the *Royal Institution of Chartered Surveyors (RICS) Construction, Building and Real Estate International Research Conference (COBRA)*, Université Paris-Dauphine in Paris, France, September 2010.

Karunasena, G., Amaratunga, D. & Haigh, R. (2010). Capacity building of disaster waste management for disaster risk reduction. In the proceedings of the *Royal Institution of Chartered Surveyors (RICS) Construction, Building and Real Estate International Research Conference (COBRA)*, Université Paris-Dauphine in Paris, France, September 2010.

Karunasena, G. Amaratunga, D. & Haigh, R. (2010). Capacity Building towards Sustainability: Context of Post Disaster Waste Management. *INTERNATIONAL RESEARCH CONFERENCE ON SUSTAINABILITY IN BUILT ENVIRONMENT*, The Commonwealth Association of Surveying and Land Economy (CASLE) UK and Building Economics and Management Research Unit (BEMRU), Department of Building Economics, University of Moratuwa, Sri Lanka, June 2010.

Karunasena, G., Amaratunga, D. & Haigh, R. (2010). Waste Management Strategies During Post Disaster Phase: A Case of Sri Lanka. In the proceedings of Building a Better World - CIB 2010 World Congress, 10-13 May 2010 Salford Quays - United Kingdom.

Karunasena, G., Amaratunga, D., and Haigh, R. (2009). Challenges for disaster waste management in adapting climate changes, Proceedings of the 3rd FARU Research Conference: Built Environment responding to climate change, 17th December, Sri Lanka.

Karunasena, G., Amaratunga, D., and Haigh, R. (2009). Impact of Post Disaster Waste Management towards Disaster Risk Reduction, National Symposium on Promoting Knowledge Transfer to Strengthen Disaster Risk Reduction and Climate Change Adoption, 7 – 8th July, Ministry of Disaster Management and Human Rights, Sri Lanka.

Karunasena, G., Amaratunga, D., & Haigh, R. (2009). Capacity Building for Post Disaster Waste Management: Research Methodological Perspective, in the proceedings of BuHu 9th International Postgraduate Research Conference, 29 – 30 January 2009, UK.

Karunasena, G., Amaratunga, D., & Haigh, R. (2009). Impact of Post Disaster Waste Management towards Disaster Risk Reduction, National Symposium on Promoting Knowledge Transfer to Strengthen Disaster Risk Reduction & Climate Change Adoption, Ministry of Disaster Management and Human Rights, Sri Lanka.

Koskela, L J, Stratton, R and Koskenvesa, A (2010). Last planner and critical chain in construction management: comparative analysis in: 18th Annual Conference of the International Group for Lean Construction, 14-16 July 2010, Haifa, Israel.

Koskenvesa, A, Koskela, L J, Tolonen, T and Sahlsted, S (2010). Waste and labor productivity in production planning case Finnish construction industry in: 18th Annual Conference of the International Group for Lean Construction, 14-16 July 2010, Haifa, Israel.

Kulatunga, U., Amaratunga, D., Zaman, M., Biswas, A. & Parvez, A. (2010). Community Risk Assessment for Disaster Risk Reduction: Challenges and Future. In the proceedings of the Royal Institution of Chartered Surveyors (RICS) Construction, Building and Real Estate International Research Conference (COBRA), Université Paris-Dauphine in Paris, France, September 2010.

Ruddock, L & Abusa, M. (2009). The Key Factors Encouraging the Growth and Expansion of Multinational Hotel Companies into New Countries

– A Case Study of Libya. Proceedings of the Fourth International Conference on Mediterranean Tourism, University of the Aegean, Rhodes, 2009.

Slivon, C A, Howell, G A, Koskela, L J and Rooke, J A (2010). Social construction: Understanding construction in a human context in: 18th Annual Conference of the International Group for Lean Construction, 14-16 July 2010, Haifa, Israel.

External accreditations and awards

Accreditations

Finch, E., Accreditation: British Universities in Dubai (BUiD), MSc in Intelligent Buildings

Awards

Amaratunga, D., 2009 Best Paper Award. Associated School of Construction, USA, 2009 Annual International Conference, Florida, USA. Paper title "Principles of Integrating Research into Teaching in Higher Education: Built Environment Perspective".

Chynoweth, P., Emerald Literati Network 'Highly Commended Paper' Award 2010 – Journal article: 'The built environment interdiscipline: a theoretical model for decision makers in research and teaching', Structural Survey, Vol. 27, No. 4, pp.301-310.

Palliyaguru, R., Amaratunga, D. & Haigh, R., 2010 Best Paper award, CIB World Congress, Salford Quays, UK. Disasters and the Built Environment Theme. Paper title "Policy implications of integration of disaster risk reduction to infrastructure reconstruction".

Thayaparan, M., Amaratunga, D. & Haigh, R., 2010 Best Paper award, CIB World Congress, Salford Quays, UK. Postgraduate Research Theme Paper title "Contribution of Women Managers towards the Construction Industry: Preliminary Findings".

Thurairajah, N. & Amaratunga, D., 2009 Best paper award 9th International Postgraduate research conference in the built and human environment. Paper title "Empowerment of Women in Post Disaster Reconstruction: Research methodological perspectives".

Ingirige, B., Award of an International travel grant from Royal Academy of Engineering (RAE)

Arif, M. , Egbu, C., Haleem, A., Kulonda, D., and Khlafan, M., "State of Green Construction in India: Drivers and Challenges", Journal of Engineering Design and Technology, 2009, 7(2), 223-234. Highly Commended Award Winner at the Literati Network Awards for Excellence 2010.

Potbhare, V., Syal, M., Khalfan, M., Arif, M., and Egbu, C., "Emergence of Green Building Guidelines in India and their Comparison with Developed Countries", *Journal of Engineering Design and Technology*, 2009, 7(1), 99-121.

Outstanding Paper Award Winner at the Literati Network Awards for Excellence 2010.

Khalfan, M.M.A, Arif, M. and Aburas, H. M., "Integration of Suppliers and Manufacturers within Construction Supply Chains through Innovative Procurement Strategies", *Journal of King Abdul Aziz University Engineering Science*, 2009, 19(2), 73-89.

Media, innovative or creative activities

Haigh, R. & Amaratunga, D., Empowering people in post conflict areas vital. Daily news. 18/06/2009 (<http://www.dailynews.lk/2001/pix/PrintPage.asp?REF=/2009/06/18/bus02.asp>).

Haigh, R. & Amaratunga, D., Build Back Better says visiting Disaster Resilience DUO. Sri Lanka news first (<http://srilankanewsfirst.com/sci-tech/11528.html>).

Haigh, R. & Amaratunga, D., Build Back Better says visiting Disaster Resilience DUO. 16/06/2009. (http://www.thecolombotimes.com/index.php?option=com_content&view=article&id=5471:build-back-better-says-visiting-disaster-resilience-duo&catid=4:featured-news&Itemid=5).

Industry engagement activities

Amaratunga, D., speech entitled "Capacity Development for a Resilient Built Environment", Invited speech on "Social challenges of rehabilitation and reconstruction". Seminar on "Rehabilitation and Reconstruction of the Northern and Eastern Provinces, Colombo, Sri Lanka. June 2009.

Haigh, R., Session Leadership, Disaster Risk Reduction and Resilient Cities, Batticaloa, eastern Sri Lanka, June 2010, Resilient Cities Initiative 2010 – 2011, United Nations International Strategy for Disaster Reduction (UNISDR).

Khosrowshahi, F., Mobilised a panel of 3 from Salford and industry members of Construct IT to deliver consultancy work for the largest housing developer in Iran.

Staff and student exchanges Significant international visitors that were hosted

Amaratunga, D. & Haigh, R. , Professor Clive Warren, University of Queensland, Brisbane, Australia, Professor Chitra Weddikara, University of Moratuwa, Sri Lanka.

Amaratunga, D. & Ingirige, B., Dr Thayaparan Gajendran, University of Newcastle, Australia.

Amaratunga, D. & Keraminiyage, K., Dr. Lalith de Silva, University of Moratuwa, Sri Lanka.

Amaratunga, D. & Haigh, R., Professor Suzanne Wilkinson, University of Auckland, New Zealand.

Chynoweth, P., Dr Andrew Kelly, University of Wollongong, Australia, January 2010.

Chynoweth, P., Dr Sai On Cheung, City University of Hong Kong, May 2009 .

Fernando, T., Hosted several international visitors to the University in the Think Lab including Professor Stephanie Donald, Dean, School of Media and Communication at RMIT, Australia.

Finch, E., Hosting of academics from Civil Engineering Department University of Sao Paulo, Escola Polytechnica at University of Salford Workshop on Facilities Management, July 2009 .

Koskela, L., Prof Juha Paavola and Dr Jussi Heikkila from Aalto University, January 2010.

Kulatunga, U., Prof Mostafa Zaman, Chairman, Department of Environmental Science and Disaster Management, Patuakhali Science and Technology University, Bangladesh, September 2010.

Staff-exchanges (short and long term)

Haigh, R. & Amaratunga, D., Organized and managed following exchanges: Suranga Jayasena, University of Moratuwa, Sri Lanka & Gayani Karunasena, University of Moratuwa, Sri Lanka.

Ingirige, B., Received Travel Grant under EU Leonardo scheme for staff mobility (£1200) to conduct research into distance learning tools. Visited University of Maribor, Slovenia as part of this staff exchange programme.

Student exchanges

Fernando, T., Hosted two student placements (three months each) from the University of Beihang, Beijing, China. 2009/2010.

Koskela, L., Hosted six month student placement from Hong Kong Polytechnic University, 2010. Hosting of international student placement: Ergo Pikas, Estonia, February 2010.

Appointments as external examiners, advisors and reviewers

PhD external examiner

Amaratunga, D., University of Newcastle, Australia, University of Auckland, New Zealand, University of Melbourne, Australia, University of Calgary, Canada, University of Moratuwa, Sri Lanka.

Brandon, P., Polytechnic of Turin, Italy.

Finch, E., Hong Kong Polytechnic University, Hong Kong.

Ruddick, L., Dublin Institute of Technology; University of South Africa.

MSc external examiner

Finch, E., Hong Kong Polytechnic, MSc in Facilities Management (2009-2011), Hong Kong Polytechnic, MSc in Real Estate (2010-2012), Delft University, School of Architecture, The Netherlands.

Degree programme external examiner roles

Brandon, P., University of Moratuwa, Sri Lanka, BSc (Hons) Quantity Surveying.

Fortune, C., External Examiner to Dublin Institute of Technology, Ireland, BSc Construction Economics and Management programme.

Ingirige, B., External Examiner, Dublin Institute of Technology, Dublin, Republic of Ireland, MSc Applied Construction Cost Management Programme.

Nevell, M., External examiner in Archaeology for University College Cork, Ireland.

Advisor roles

Amaratunga, D., External adviser to University of Moratuwa BSc in Facilities Management and BSc in Quantity Surveying degree programmes (RICS accredited).

Amaratunga, D., External adviser to University of Peradeniya, Sri Lanka MSc in Quantity Surveying degree programme.

Amaratunga, D., Expert consultant to BSc in Disaster Management Degree Programme at Patuakhali Science and Technology University, Dumki, Bangladesh.

Amaratunga, D., considerable level of input towards updating Sri Lanka Disaster Management Bill as a Specialist Adviser, Ministry of Disaster Management and Human Rights, Sri Lanka.

Khosrowshahi, F., In collaboration with University of Lyons, France, developed a state-of-the-art new MSc programme for Damascus University, Syria.

Khosrowshahi, F., Adviser to Journal rating committee for Australian Research Council.

Owen, R., UK Expert in Project Management developing new international standard.

Owen, R., Co-inaugurator of Indian Institute for Lean Construction Excellence.

Khosrowshahi, F., Adviser to HICO company in Iran.

Quality Auditor in another country's system

Khosrowshahi, F., Quality Controller of new MSc programme in Damascus University, Syria.

Reviewer for international funding bodies

Amaratunga, D., Reviewer for FP7 programme.

Amaratunga, D., Reviewer of EU LLP research programme.

Ruddock, L., Hong Kong Grants Commission.

Editor of international journals Journal editorships

Chynoweth, P., Founding editor, International Journal of Law in the Built Environment.

Lee, A., Aouad, G. & Wu, S., Editors, Built and Human Environment Review, international online journal dedicated to PG research.

Nevell, M., Co-editor of an international archaeology journal, Industrial Archaeology Review, from September 2009 for a five year term.

Underwood, J., Contract (together with co-editors from Beykent University, Turkey and Delft University of Technology, Netherlands) for the International Journal of 3D Information Modelling. The inaugural call for papers will be in Autumn 2010 with the inaugural launch January 2012. This international journal is not only the first journal to be specifically focused on BIM (Building Information Modelling), but will also covers issues associated with 3D GIS and their integration.

Guest editorials

Ahmed, V., Guest editor for the special issue on Use of Gaming and Virtual World Technology in Architecture, Engineering and Construction, International Journal of Information Technology in Construction (ITCon) – (2010, ongoing).

Ahmed, V., Guest Editor for the Built Environment Review Journal (2010), special issue of Postgraduate Research (2010, ongoing).

Amaratunga, D., Kulatunga, U. & Liyanage, C. (2009). Co-Editor - special issue of Facilities Journal on "Facilities performance measurement and management".

Amaratunga, D. & Haigh, R. (2009). Guest Editor of a Special Issue of Disaster Prevention and Management Journal on "Disasters and the built environment".

Amaratunga, D., Pathirage, C., Keraminiyage, K. & Siriwardena, M. (2010). Guest Editors, The Built and Human Environment Review Journal, Special Issue on CIB 2010 World Congress Building a Better World.

Arif, M., Guest Editor: International Journal of Construction Project Management – Special Issue on Green Construction – Issue out 2011.

Arif, M., Guest Editor: ASCE Journal of Architectural Engineering – Special Issue on Offsite Construction – Issue out 2011-2012.

Arif, M., (2009). Co-Guest Edition: Journal of Engineering Design and Technology – Special Issue on Green Construction – Issue Published 2009.

Haigh, R. & Amaratunga, D., (2009). Co-Editors - special issue of International Journal of Strategic Property Management on "Capacity building for post-disaster infrastructure development and management". 2009.

Ingirige, B. (2010)., Guest Editor of the ITcon journal special theme on innovations in construction e-Business (March 2010 - December 2010)

Kulatunga, U., (2010). Guest editor: International Journal of Strategic Property Management on Disaster Management

Editor of conference proceedings

Aouad, G., Ahmed, V., Alshawi, M., Egbu, A., Kagioglou, M., Abbott, C. (2009). 9th INTERNATIONAL POSTGRADUATE RESEARCH CONFERENCE IN THE BUILT AND HUMAN ENVIRONMENT Organised by Research Institute for the Built and Human Environment (BuHu), University of Salford, UK.

Aouad, G., Ahmed, V., Alshawi, M., Egbu, A., Kagioglou, M., Abbott, C. (2009). 6th international research symposium organised by the Salford Centre for research and Innovation (SCRI) Research Institute for the Built and Human Environment (BuHu), University of Salford, UK.

Barrett, P., Amaratunga, D., Haigh, R., Keraminiyage, K. & Pathirage, C. (2010). Co-editor of the CIB World Congress 2010 - Building a Better World full proceedings, The World Congress, Salford Quays, Salford, UK. 2010.

Barrett, P., Amaratunga, D., Haigh, R., Keraminiyage,

K. & Pathirage, C. (2010). Haigh, R. (2010). Co-editor of the CIB World Congress 2010 - Building a Better World, "Programme & Book of Abstracts", Salford Quays, May 2010.

Membership of journal editorial boards

Amaratunga, D., Member of the Editorial Board - Journal of Facilities Management, 2010 to date.

Amaratunga, D., Member of the Editorial Board - International Journal of Construction Education and Research. 2009 to date.

Amaratunga, D., Member of the Editorial Board -Journal of facilities management.

Amaratunga, D., Member of the Editorial Board, Journal of Quality Assurance in Education.

Amaratunga, D., Member of the Editorial Board, The Built Human Environment Review: International Journal.

Amaratunga, D., Member of the Editorial Board, Journal of Built Environment.

Amaratunga, D., Member of the Editorial Board, Journal of Technological and Economic Development.

Amaratunga, D., Member of the Editorial Board, Management Decision Journal.

Arif, M., Member the Editorial Advisory Board, Journal of Construction Innovation.

Barrett, P., Editorial Board Member of the International Journal of Disaster Resilience in the Built Environment (2009 – date).

Barrett, P., Editorial Board Member for the Intelligent Buildings International Journal (2006 – date).

Barrett, P., Member of the Editorial Board of Engineering, Construction & Architectural Management (1999 – date).

Chynoweth, P., Member of the Editorial Board of American Society of Civil Engineers: Journal of Legal Affairs and Dispute Resolution in Engineering and Construction.

Chynoweth, P., Member of the Editorial Board of Emerald Group Publishing Ltd: Structural Survey: International Journal of Building Pathology & Refurbishment.

Chynoweth, P., Member of the Editorial Board of Royal Institution of Chartered Surveyors: Research Papers Series.

Haigh, R. Member of the Editorial Board of Built Environment Sri Lanka Journal.

Ingirige, B., Member of the Editorial Board, Construction Annual Review Journal.

Khosrowshahi, F., Member of Editorial board, International Journal of Project Management in Business, Publisher, Emerald, ISSN: 1753-8378 (published in Australia.)

Keraminiyage, K., Member of the editorial board - International Journal of Disaster Resilience in the Built Environment (Since November 2009).

Pathirage, C., Editorial Advisory Board member, International Journal of Disaster Resilience in the Built Environment.

Pathirage, C., International Editorial Review Board Member, International Journal of Knowledge-Based Organizations (IJKBO).

Ruddock, L., Member of the Editorial Board, International Journal of Strategic Property Management.

Ruddock, L., Member of the Editorial Board, Journal of Civil Engineering and Management.

Ruddock, L., Member of the Editorial Board, International Journal of Disaster Resilience in the Built Environment.

Journal review panels

Amaratunga, D., Reviewer for Journal of Environmental Planning & Management, 2010, Journal of Civil Engineering and Management, 2010, Journal of Environmental Planning & Management, Journal of Civil Engineering and Management, The Journal of Construction Management and Economics, Engineering, Construction and Architectural Management (ECAM) Journal, Building Research and Information (BRI) Journal, Journal of Construction Innovation, International Journal of Business Performance Management, Scientific Journal of Technological and Economic Development, Journal of Property Investment and Finance, Australian Journal of Construction Economics & Building (AJCEB), Journal of Systems Science and Systems Engineering, Journal of construction in developing countries, ASCE (American Society of Civil Engineers) Journal of Management in Engineering, Construction Innovation, Information, Process Management Journal, Facilities Journal, RICS Research Paper Series, Business Process Management Journal.

Arayici, Y., Referee for journals: Automation In Construction, Computer Aided Civil and Infrastructural Engineering Journal, and Cultural Heritage Journal.

Arif, M., Member of the Editorial Review Board, Journal of Knowledge Management Practice, Ideas Group International Books Publishing.

Barrett, P., Member of the Refereeing Panel for the Research Grants Council (RGC) of Hong Kong (1996 – date), Building Research & Information Journal (1996 – date).

Chynoweth, P., Referee for peer-reviewed journal, American Society of Civil Engineers: Journal of Professional Issues in Engineering Education and Practice, American Society of Civil Engineers: Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, Structural Survey: International Journal of Building Pathology & Refurbishment, Royal Institution of Chartered Surveyors: Research Papers Series, Construction Law Journal, Construction Management & Economics, Sustainable Development, International Journal of Public Administration, Construction Innovation: Information, Process, Management.

Ingirige, B., Reviewer of many international journals such as the Construction Management and Economics, Journal of Construction Innovation, Journal of Disaster Resilience in the Built Environment, Structural Survey and ITcon journal.

Kagioglou, M., member and reviewer of boards: Automation in Construction, Building Research and Information, Construction Management and Economics, Engineering Construction and Architectural Management, Institute of Civil Engineering Journal, International Journal of Business Performance Management, Journal of Management in Engineering, Lean Construction Journal, Facilities Journal, Encyclopaedia of E-Business Development and Management in the Digital Economy, Urban Design and Planning, Construction Process Innovation, Construction Procurement, Built Environment Postgraduate Review.

Kulatunga, U., Reviewer for international journals: Construction Management and Economics, Facilities, International Journal of Disaster Resilience in the Built Environment and ITcon .

Medjdoub, B., Invited referee for Automation in Construction journal, 2009, Invited referee for ITcon journal, 2009-2010, Invited referee for the Built and Human Environment Review journal 2010 .

Siriwardena, M., Member of the review panel - International Journal of Disaster Resilience in the Built Environment (Since November 2009), Facilities Journal (Special Issue - Managing & Measuring Performance in FM).

Tzortzopoulos Fazenda, P., Reviewer for international journals: Revista ambiente construido (Brazil); Journal of construction in developing countries; UNESCO journal.

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