ASSOCIATION OF RESEARCHERS IN **CONSTRUCTION MANAGEMENT**

TWENTY-NINTH ANNUAL CONFERENCE

2013

September 2-4

Town Hall, Reading, UK

Final Conference Programme

ARCOM 2013 – PROGRAMME OVERVIEW

Day 1: Monday 2 September				
Registration				11.00
Lunch				12.00
Welcome & Introductions				12.40
Keynote Address: Professor Alistair Gibb and Lawrence Waterman				13.00
Session 1A	Session 1B	Session 1C	Session 1D	13.55
Coffee & Tea Break				15.00
Session 2A	Session 2B	Session 2C	Session 2D	15.30
Session 3A	Session 3B	Session 3C	Session 3D	16.30
Break: Check in at hotels				17.30
Social Reception: University of Reading Buses depart 18.30 and return from 22.30				18.30 for 18.50
Close				23.00

Day 2: Tuesday 3 September				
Late Registration				08.30
Langford Lecture: Emmanuel Aboagye-Nimo				09.00
Coffee & Tea Break				09.45
Keynote Address: Peter Hansford				10.10
Debate: Prospects and Precariousness				11.00
Lunch				12.00
Session 4A	Session 4B	Session 4C	Session 4D	12.45
Session 5A	Session 5B	Session 5C	Session 5D	13.45
Coffee & Tea Break				14.45
Session 6A	Session 6B	Session 6C	Session 6D	15.15
ARCOM Annual General Meeting				16.00
Break				17.00
Reception and Conference Dinner: Concert Hall, Town Hall				18.45

Day 3: Wednesday 4 September				
Late Registration				08.30
Session 7: Plenary Paper Session				09.00
Session 8A	Session 8B	Session 8C	Session 8D	10.15
Coffee & Tea Break				11.15
Session 9A	Session 9B	Session 9C	Session 9D	11.40
Closing Comments & ARCOM 2013 Conference				12.50
Lunch				13.10

ARCOM-CIOB Joint Workshop: *'Connecting Academia and Industry in Innovation and Research'* Concert Hall, Town Hall	14.00 to 17.00

MONDAY 2nd SEPTEMBER

From 11.00		**REGISTRATION**	Lucina Cruickshank and Dominic Ahiaga-Dagbui		Town Hall Lobby
12:00	12:40	**LUNCH**			The Three B's Restaurant
12:40	13:00	**Welcome & Introductions**			Concert Hall
13:00	13.50	**Keynote Address: 'What can we REALLY learn from the safest Olympics build?'**	**Professor Alistair Gibb**, Loughborough University and **Lawrence Waterman**, London Legacy Development Corporation		Concert Hall
13:50	13:55	Disperse to parallel sessions			
Session 1:		**1A: Concert Hall**	**1B: Victoria Hall**	**1C: Waterhouse**	**1D: Silverthorne**
13:55	15:00	**Project Management 1** ***Chair: Dr Chris Harty***	**Quality Management** ***Chair: Prof Charles Egbu***	**Procurement 1** ***Chair: Steve Donohoe***	**Inter-Organisational Relationships and Supply Chain Management 1** ***Chair: Prof Christine Räisänen***
4 papers		'All that fuss, just for some bloody badgers?' The politics of wildlife in infrastructure construction – *Sage, Dainty, Tryggestad, Justesen and Mouritsen* Community consultation during construction – attitudes, experiences and skills – *Close and Loosemore* Urban high-density construction sites and their surrounding community: issues encountered and strategies adopted by contractors – *Spillane, Flood, Oyedele, von Melding and Konanahalli* Organizing construction practices in different cultural contexts – *Rasmussen and Thuesen*	Defects of new-build dwellings constructed to building regulations and to 'The code for sustainable homes' – *Pan and Thomas* Attaining zero defects within Building Schools for the Future (UK): stakeholders' perceptions – *Boothman and Higham* Establishing status of Nigerian building design firms based on European construction institute Total Quality Management matrix – *Dikko* Workmanship and defects in housing in the state of Victoria, Australia – *Georgiou*	**I**nnovative use of ECC (NEC3) for procurement and management of infrastructure projects with limited funding – Bervie Braes case study – *Mickovski, Black and Smith* Public private partnerships: the provision of healthcare infrastructure in Australia – *Jefferies, Gajendran and Brewer* Tied supply chains in construction projects: lessons from London Underground's public-private-partnership – *Gannon, Male and Aitken* The application of whole life costing in PFI/PPP projects – *Meng and Harshaw*	To continue investment in a collaborative innovation project: a good decision? – *Rutten, Dorée and Halman* Capacity building in emerging economies through international construction ventures- case study of the NMPP project – *Rwelamila, Henjewele and Mkandawire* A case study of joint procurement and provision of legal services to a group of a universities in the Midlands – *Charlson and Chinyio* A socio-economic framework for adopting governance mechanisms in large construction projects – *Banihashemi and Liu*
15:00	15:30	**COFFEE / TEA**			Concert Hall & Upper Lobby

Presentations – 10 minutes each, followed by Q&A at end of session

MONDAY 2nd SEPTEMBER

Session 2:		**2A: Concert Hall**	**2B: Victoria Hall**	**2C: Waterhouse**	**2D: Silverthorne**
15:30	16:30	**Project Performance 1** ***Chair: Dr Poorang Piroozfar***	**Human Behaviour and Culture 1** ***Chair: Prof Martin Loosemore***	**Economics, Cost and Financial Management** ***Chair: Dr Stephen Gruneberg***	**Design Management** ***Chair: Dr Paul Chan***
4 papers		Revisiting the critical factors causing failure of construction projects in Vietnam – *Nguyen and Chileshe* Critical analysis of research on project success in construction management journals – *Gunathilaka, Tuuli and Dainty* Learning from movie-sets coordination – *Egebjerg* Welcoming high reliability organising in construction management – *olde Scholtenhuis and Dorée*	A phenomenological study of private homebuilders' perceptions on the employment of professional services – *Frimpong and Dansoh* Analysing the discourses surrounding change and reform in the construction sector: the need for a marriage between critical theory and a socio-historical cultural perspective – *Smiley, Dainty and Fernie* Pride and prejudice – identity and collaboration in construction – *Thuesen* How to build what buyers want – unveiling customer preferences for prefabricated homes – *Schoenwitz, Gosling, Naim and Potter*	Evaluation of Islamic financing products for housing and infrastructure development – *Adelekan, Wamuziri and Binsardi* Perceived impact of the market on the business of regional contractors: a South African context – *Emuze, Sanderson and Shakantu* Perception towards cost implication of mechanisation and automation approach in IBS projects in Malaysia – *Kamaruddin, Mohammad, Mahbub and Yunus* A neuro-fuzzy hybrid model for predicting final cost of water infrastructure projects – *Ahiaga-Dagbui, Tokede, Smith and Wamuziri*	Evolving designs and stakeholder contributions to the briefing process – *Collinge and Harty* 'Reinventing the wheel?' – case study of research into linear/non-linear and framing processes – *Robinson, Austin and Gibb* Accounting for users: design team work in immersive virtual reality environments – *Maftei and Harty* Healthcare built environment impacts, construction projects and organisational change – *Davies*

Presentations – 10 minutes each, followed by Q&A at end of session

MONDAY 2nd SEPTEMBER

Session 3		3A: Concert Hall	3B: Victoria Hall	3C: Waterhouse	3D: Silverthorne
16:30	17:30	**H&S and Respect for People 1** ***Chair: Prof Sam Wamuziri***	**Sustainability – Theory and Strategy 1** ***Chair: Dr Shu-Ling Lu***	**Knowledge Management and IT 1** ***Chair: Prof Charles Egbu***	**Equality and Diversity** ***Chair: Dr Scott Fernie***
3/4 papers		Et in Arcadia ego? 'Zero target' safety programmes in the UK construction industry – *Sherratt* Construction motor vehicle accidents in South Africa: causes and impact – *Emuze and Smallwood* Institutional determinants of construction safety management strategies of contractors in Hong Kong – *Ju and Rowlinson*	Housing an ageing population: implications for managing the social housing stock – *Boyle and Thomson* Reconceptualising hospital facility resilience to extreme weather events using a panarchy model – *Chand and Loosemore* Stakeholders perspective on sustainable technology selection to achieve zero carbon retail buildings – *Zainab, Pan, Goodhew and Fuertes* Swedish poverty – an oxymoron? Taking issue with social sustainability in urban renewal – *Buser and Koch*	Assessing the potential application of online social networks for the construction industry – *Bartley* Site managers' uses of building information modeling (BIM) on construction sites – *Mäki and Kerosuo* A knowledge map of sustainability for urban redevelopment projects – *Gilmour, Blackwood, Falconer, Isaacs and Taylor*	Older construction workers: needs and abilities – *Gibb, Leaviss and Bust* Mainstreaming equality in construction: the case for organisational justice – *McCarthy, Thomson and Dainty* Re-thinking the approaches to mass housing delivery in Nigeria: lessons from past housing programme implementation – *Jambol, Molwus and Daniel*
17:30	18:30	*Break: Check-in at hotels*			Hotels
18:30	18:45	Buses to Whiteknights, University of Reading			Pick-up: Blagrave Street (outside Town Hall)
18:50	23:00	Social Reception: University of Reading			Meadows Suite, Park House, Whiteknights Campus, University of Reading
		Buses to return to Reading town centre at 22.00, 22.30 and 23.00			

Presentations – 10 minutes each, followed by Q&A at end of session

TUESDAY 3rd SEPTEMBER

08:30	09:00	**Registration**	Lucina Cruickshank	Town Hall Lobby
09:00	09:45	**Langford Lecture: 'Is there any 'common sense' in health and safety regulations?'**	**Emmanuel Aboagye-Nimo**, PhD Candidate, Nottingham Trent University (Chair: Dr David Seymour)	Concert Hall
09:45	10:10	**COFFEE / TEA**		Concert Hall & Upper Lobby
10:10	10:55	**Keynote Address: 'A vision for 2025'**	**Peter Hansford**, Chief Construction Advisor to the UK Government	Concert Hall
11:00	12:00	**Debate**	Prospects and Precariousness (Chair: Dr Paul Chan)	Concert Hall
12:00	12:45	**LUNCH**		The Three B's Restaurant

Session 4		**4A: Concert Hall**	**4B: Victoria Hall**	**4C: Waterhouse**	**4D: Silverthorne**
12:45	13:45	**H&S and Respect for People 2** ***Chair: Prof Alistair Gibb***	**Human Behaviour and Culture 2** ***Chair: Prof Andrew Dainty***	**Procurement 2** ***Chair: Prof Will Hughes***	**Project Management 2** ***Chair: Prof Stuart Green***
4 papers		A safety culture shaped by common sense - *Aboagye-Nimo, Raiden, King and Tietze* Exploring factors affecting unsafe behaviours in construction – *Oswald, Sheratt and Smith* A relational approach to high reliability organising for construction project safety: a conceptual framework – *Koh, Tuuli and Rowlinson* Key inputs into a designing for construction health, safety, and ergonomics model in South Africa – *Goldswain and Smallwood*	Competency and empowerment of project managers in China – *Chan, Lui, Cao and Fellows* Organizational culture, leadership style and effectiveness: a case study of Middle Eastern construction clients – *Alnasseri , Osborne and Steel* Development of a conceptual model for organizational learning culture and innovation diffusion in construction – *Hua and Chan* A meta-analysis of opportunistic behaviour in public-private partnerships: manifestations and antecedents **–** *Qu and Loosemore*	Enforceability of exemption clauses in construction contracts: a comparative study of approaches in England and Australia – *Donohoe and Coggins* Rules of tendering and the influence of the privilege clause in South Africa – *Ramabodu* Target cost contracts: adopting innovative incentive mechanisms to improve the project delivery process – *Williams, Williams and Ryall* Incentive contracting in construction – *Kwawu and Laryea*	Does the deployment of project management itself provide benefits? Both tangible and intangible – *Oliomogbe and Smith* Combining lean construction with maturity models – *Nesensohn, Bryde, Fearon and Ochieng* Improvement opportunities for evidence-based design – An application of a critical realist's perspective – *Wanigarathna, Price and Austin* Understanding complexity in the AEC Industry – *Wood, Piroozfar and Farr*

Presentations – 10 minutes each, followed by Q&A at end of session

TUESDAY 3rd SEPTEMBER

Session 5		5A: Concert Hall	5B: Victoria Hall	5C: Waterhouse	5D: Silverthorne
13:45	14:45	**Research Methods and New Perspectives 1** ***Chair: Prof André Dorée***	**Project Performance 2** ***Chair: Dr Apollo Tutesigensi***	**Sustainability – Theory and Strategy 2** ***Chair: Dr Colin Booth***	**Organisational Strategy and Business Performance 1** ***Chair: Prof Martin Sexton***
4 papers		Time keeps on slippin', slippin', slippin' into the future: BIM, imaging and time on construction sights – *Raisbeck* Making changes in practice: an ethnographic study of a hospital project – *Shipton and Hughes* Making sense of innovation in the UK construction sector – *Sergeeva* Application of the principal-agent theory to construction managment: literature review – *Ceric*	Indicators of environmental and productivity performance for building refurbishment projects – *Sezer* Weak management of the predictability of contingency allowance in construction projects in Nigeria – *Bello and Odusami* Trust, mistrust and distrust in alliancing - *She* The role of 'greening' and an ecosystem approach to enhancing construction ergonomics – *Obiozo and Smallwood*	Reducing building electricity use by increasing occupant perceived control – *Yearley, Hyde and Box* The increasing development of publications on sustainable procurement and issues in practice – *Laryea, Alkizim and Ndlovu* Development of a measure to assess attitudes towards sustainable development in the built environment: a pilot study – *Brennan and Cotgrave* Corporate environmental strategies and performance: a longitudinal study – *Gluch, Gustafsson, Thuvander and Baumann*	Strategy framework for post-construction contractor services – *Gruneberg* Serendipitous innovation: enablers and barriers in the construction industry - *Loosemore* Problematisation of the shift from products to services – *Morrey, Dainty, Thomson and Pasquire* The effects of business environments on corporate strategies and performance of construction organisations – *Oyewobi, Windapo and Rotimi*
14:45	15:15	**COFFEE / TEA**			Concert Hall & Upper Lobby

Presentations – 10 minutes each, followed by Q&A at end of session

TUESDAY 3rd SEPTEMBER

Session 6		6A: Concert Hall	6B: Victoria Hall	6C: Waterhouse	6D: Silverthorne
15:15	16:00	**Education and Learning** ***Chair: Dr Fred Sherratt***	**Knowledge Management and IT 2** ***Chair: Dr Chika Udeaja***	**Sustainability – Theory and Strategy 3** ***Chair: Prof Chris Gorse***	**Construction Design and Technology 1** ***Chair: Dr Stephen Gruneberg***
3 papers		Construction studies in higher education and the use of digital technology – *Ancell* Do educational mismatches influence job satisfaction? The case of Spanish building engineering graduates working as site managers – *Fuentes-del-Burgo and Navarro-Astor* Assessing learning and teaching strategies of a post-graduate capstone course: students' perspective – *Ellis, Petersen and Lewis*	Messages in bottles: the fallacy of transferring knowledge between construction projects – *Hartmann and Dorée* My cost runneth over: data mining to reduce construction cost overruns – *Ahiaga-Dagbui and Smith* Method-based learning: a case in the asphalt construction industry – *Bijleveld and Dorée*	Preserving continuity in whole-life cost models for net-zero carbon buildings – *Tokede, Sloan and Brown* Green marketing in housing: reality or rhetoric? – *Bevan and Lu* An appreciation of BREEAM relative to the cosmonomic idea of reality – *Moir and Carter*	A decision evaluation model (DEM) to choose between manufacturing off-site or on-site methods for construction of house building projects – *Elnaas, Ashton and Gidado* An exploratory study of information maturity in construction and developing a decision-making model – *Zou, Flanagan, Jewell and Tang* Journeys through the CAVE: The use of 3D immersive environments for client engagement practices in hospital design – *Tutt and Harty*
16:00	17:00	ARCOM Annual General Meeting			Concert Hall
17:00	18:30	**BREAK**			
18:30	18:45	Return to Town Hall			
18:45	23:00	**CONFERENCE DINNER**: Reception from 18:45 Reading Museum; Dinner from 19:45 Concert Hall			Reading Town Hall
23:00		Close			

Presentations – 10 minutes each, followed by Q&A at end of session

WEDNESDAY 4th SEPTEMBER

08:30	09:00	Late Registration	Lucina Cruickshank	Town Hall Lobby
Please remember to check out of hotels				
Session 7		**Plenary Paper Session** ***Chair: Dr Simon Smith***		Concert Hall
09:00	10:15	**WABER Best Paper and ARCOM Travel Award Recipient** The Orowa house: a typology of traditional Yoruba architecture in Ile-Ife, Nigeria – *Cynthia Adeokun* **Research Methods and New Perspectives 2** A 'Zombie' Existence: Exploring Ulrich Beck's Zombie Categories and Construction Management Research – *Chan* Design strategies for a future climate: a qualitative comparative analysis – *Grinnell, Austin and Dainty* Improving collaboration in construction: an opportunity for action research – *Connaughton and Weller*		
Session 8		**8A: Concert Hall**	**8B: Victoria Hall**	**8C: Waterhouse**	**8D: Silverthorne**
10:15	11:15	**Sustainability in Practice 1** ***Chair: Dr Craig Thomson***	**Risk Management** ***Chair: Dominic Ahiaga-Dagbui***	**Procurement 3** ***Chair: Dr Samuel Laryea***	**Construction Design and Technology 2** ***Chair: Prof Paul Stephenson***
4 papers		Imposing green building regulations in Dubai – *Salama and AlSaber* UAE green building strategic model (UAE GBSM) – *Salama and Hana* The roles of sustainability assessment systems in delivering sustainable construction – *Goh and Rowlinson* Interactive visualisation to support sustainability assessment in land use scenario planning – *Stojanovic, Falconer, Isaacs, Gilmour and Blackwood*	Perception of barriers to implementing risk assessment and management practices (RAMP) by construction professionals in Tanzania – *Chileshe and Kikwasi* The Gulf Cooperation Council railway – *Lowe and Altrairi* Risk attitude of Chinese contractors in bid/no bid decision-making of international projects: a preliminary study – *Zhang, Chen and Fu* Risk and security challenges on further education campuses – *Baggott, Oloke, Georgakis, and Khatib*	Public procurement at local level in The Netherlands: towards a better client-contractor cooperation in a competitive environment – *Boes and Dorée* A case study of changing procurement practices on delivery of highways projects – *Rooney and Allan* Project alliances: an investigation into the logic behind the range of a Dutch public sector client's initiatives – *Plantinga and Dorée* Collaborative procurement: an exploration of practice and trust in times of austerity – *Challender, Farrell and Sherratt*	Building healthy construction workers by better workplace design; understanding the context – *Eaves, Gyi and Gibb* Challenges and solutions for management of FRP usage in the UK rail sector – *Shah, Walsh and Ross* Multi-storey building retrofit with a focus on the façade selection process: a UK commercial office case study – *Garmston, Fox, Pan and de Wilde* Modularization in a housing platform for mass customization – *Johnsson, Jansson and Jensen*

Presentations – 10 minutes each, followed by Q&A at end of session

WEDNESDAY 4th SEPTEMBER

11:15	11:40	**COFFEE / TEA**			Concert Hall & Upper Lobby
Session 9		**9A: Concert Hall**	**9B: Victoria Hall**	**9C: Waterhouse**	**9D: Silverthorne**
11:40	12:50	**Building Information Modelling** ***Chair: Dr Chika Udeaja***	**Sustainability in Practice 2** ***Chair: Dr David Blackwood***	**Inter-Organisational Relationships and Supply Chain Management 2** ***Chair: Dr Scott Fernie***	**Organisational Strategy and Business Performance 2** ***Chair: Dr Ani Raiden***
4 or 5 papers		Supporting future-proof healthcare design by narrowing the design space of solutions using building information modelling – *Krystallis, Demian and Price* Evaluating the benefits of BIM for sustainable design – a review – *Dowsett and Harty* BIM collaboration: a conceptual model and its characteristics – *Lu, Zhang and Rowlinson* BIM in facility management and maintenance- the case of Kaisa library of Helsinki University – *Korpela and Miettinen* Understanding the polarized perspectives in BIM enabled projects – *Cidik, Boyd and Thurairajah*	The role of beneficiaries' participation in South Africa low-income housing occupants' satisfaction – *Aigbavboa and Thwala* Decision support framework for low impact housing design in the UK – *Baba, Mahjoubi, Olomoilaiye and Booth* Green choices: the influence of socio-technical parameters on householder decision making in green retrofit projects – *Lang, Glass, Goodier, Ghumra and Wilks* Sustainable intermodal transportation of prefabricated construction materials – *Heljedal and Persson*	The role of the supply chain in elimination and reduction of construction rework and defects: an action research approach – *Taggart, Koskela and Rooke* How can supply chain management proliferate in South African construction? – *Emuze and Smallwood* A logistics framework for improving construction supply chain performance – *Thunberg and Persson* The impact of varying asset specificities of subcontractors on relationships development in construction – *Blay-Armah and Ross*	A critical review of response strategies adopted by construction companies during an economic recession – *Tansey, Meng and Cleland* Strategic management competencies in Scandinavian contractors – *Koch and Buhl* Implementing an offsite construction strategy: a UK contracting organisation case study – *Vernikos, Goodier and Robery*
12:50	13:10	Closing comments and Looking ahead to ARCOM 30th Annual Conference, Portsmouth, 2014			Concert Hall
13:10		**LUNCH**			The Three B's Restaurant

Presentations – 10 minutes each, followed by Q&A at end of session