



ASSOCIATION OF RESEARCHERS IN **CONSTRUCTION MANAGEMENT**

TWENTY-NINTH ANNUAL CONFERENCE

2013

September 2-4

Town Hall, Reading, UK

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/Tour					17.00
Conference Dinner: Concert Hall, Town Hall					19.00

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	11.45	
Closing Comments & ARCOM 2013 Conference					12.50
Lunch					13.10

<p>ARCOM-CIOB Joint Workshop: <i>'Connecting Academia and Industry in Innovation and Research'</i></p> <p>Concert Hall, Town Hall</p>	<p>14.00 to 17.00</p>
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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 <i>Chair: Dr Chris Harty</i>	Quality Management <i>Chair: Prof Charles Egbu</i>	Procurement 1 <i>Chair: Steve Donohoe</i>	Inter-Organisational Relationships and Supply Chain Management 1 <i>Chair: Prof Christine Räsänen</i>
4 papers		'All that fuss, just for some bloody badgers?' The politics of wildlife in infrastructure construction – <i>Sage, Dainty, Tryggestad, Justesen and Mouritsen</i>	Defects of new-build dwellings constructed to building regulations and to 'The code for sustainable homes' – <i>Pan and Thomas</i>	Innovative use of ECC (NEC3) for procurement and management of infrastructure projects with limited funding – Bervie Braes case study – <i>Mickovski, Black and Smith</i>	To continue investment in a collaborative innovation project: a good decision? – <i>Rutten, Dorée and Halman</i>
		Community consultation during construction – attitudes, experiences and skills – <i>Close and Loosemore</i>	Attaining zero defects within Building Schools for the Future (UK): stakeholders' perceptions – <i>Boothman and Higham</i>	Public private partnerships: the provision of healthcare infrastructure in Australia – <i>Jefferies, Gajendran and Brewer</i>	Capacity building in emerging economies through international construction ventures- case study of the NMPP project – <i>Rwelamila, Henjewele and Mkandawire</i>
		Urban high-density construction sites and their surrounding community: issues encountered and strategies adopted by contractors – <i>Spillane, Flood, Oyedele, von Melding and Konanahalli</i>	Establishing status of Nigerian building design firms based on European construction institute Total Quality Management matrix – <i>Dikko</i>	Tied supply chains in construction projects: lessons from London Underground's public-private-partnership – <i>Gannon, Male and Aitken</i>	A case study of joint procurement and provision of legal services to a group of a universities in the Midlands – <i>Charlson and Chinyio</i>
		Organizing construction practices in different cultural contexts – <i>Rasmussen and Thuesen</i>	Workmanship and defects in housing in the state of Victoria, Australia – <i>Georgiou</i>	The application of whole life costing in PFI/PPP projects – <i>Meng and Harshaw</i>	A socio-economic framework for adopting governance mechanisms in large construction projects – <i>Banihashemi and Liu</i>
15:00	15:30	COFFEE / TEA		Concert Hall & Mezzanine	

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

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 <i>Chair: Prof Sam Wamuziri</i>	Sustainability – Theory and Strategy 1 <i>Chair: Dr Shu-Ling Lu</i>	Knowledge Management and IT 1 <i>Chair: Prof Charles Egbu</i>	Equality and Diversity <i>Chair: Dr Scott Fernie</i>
3/4 papers		Et in Arcadia ego? 'Zero target' safety programmes in the UK construction industry – <i>Sherratt</i>	Housing an ageing population: implications for managing the social housing stock – <i>Boyle and Thomson</i>	Assessing the potential application of online social networks for the construction industry – <i>Bartley</i>	Older construction workers: needs and abilities – <i>Gibb, Leaviss and Bust</i>
		Construction motor vehicle accidents in South Africa: causes and impact – <i>Emuze and Smallwood</i>	Reconceptualising hospital facility resilience to extreme weather events using a panarchy model – <i>Chand and Loosemore</i>	Site managers' uses of building information modeling (BIM) on construction sites – <i>Mäki and Kerosuo</i>	Mainstreaming equality in construction: the case for organisational justice – <i>McCarthy, Thomson and Dainty</i>
		Institutional determinants of construction safety management strategies of contractors in Hong Kong – <i>Ju and Rowlinson</i>	Stakeholders perspective on sustainable technology selection to achieve zero carbon retail buildings – <i>Zainab, Pan, Goodhew and Fuertes</i>	A knowledge map of sustainability for urban redevelopment projects – <i>Gilmour, Blackwood, Falconer, Isaacs and Taylor</i>	Re-thinking the approaches to mass housing delivery in Nigeria: lessons from past housing programme implementation – <i>Jambol, Molwus and Daniel</i>
			Swedish poverty – an oxymoron? Taking issue with social sustainability in urban renewal – <i>Buser and Koch</i>		
17:30	18:30	<i>Break: Check-in at hotels</i>			Hotels
18:30	18:45	Buses to Whiteknights, University of Reading			
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 10pm, 10.30pm and 11pm			

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 & Mezzanine		
10:10	10:55	Keynote Address	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 <i>Chair: Prof Alistair Gibb</i>	Human Behaviour and Culture 2 <i>Chair: Prof Andrew Dainty</i>	Procurement 2 <i>Chair: Prof Will Hughes</i>	Project Management 2 <i>Chair: Prof Stuart Green</i>
4 papers	A safety culture shaped by common sense - <i>Aboagye-Nimo, Raiden, King and Tietze</i>		Competency and empowerment of project managers in China – <i>Chan, Lui, Cao and Fellows</i>	Enforceability of exemption clauses in construction contracts: a comparative study of approaches in England and Australia – <i>Donohoe and Coggins</i>	Does the deployment of project management itself provide benefits? Both tangible and intangible – <i>Oliomogbe and Smith</i>
	Exploring factors affecting unsafe behaviours in construction – <i>Oswald, Sheratt and Smith</i>		Organizational culture, leadership style and effectiveness: a case study of Middle Eastern construction clients – <i>Alnasseri, Osborne and Steel</i>	Rules of tendering and the influence of the privilege clause in South Africa – <i>Ramabodu</i>	Combining lean construction with maturity models – <i>Nesensohn, Bryde, Fearon and Ochieng</i>
	A relational approach to high reliability organising for construction project safety: a conceptual framework – <i>Koh, Tuuli and Rowlinson</i>		Development of a conceptual model for organizational learning culture and innovation diffusion in construction – <i>Hua and Chan</i>	Target cost contracts: adopting innovative incentive mechanisms to improve the project delivery process – <i>Williams, Williams and Ryall</i>	Improvement opportunities for evidence-based design – An application of a critical realist's perspective – <i>Wanigarathna, Price and Austin</i>
	Key inputs into a designing for construction health, safety, and ergonomics model in South Africa – <i>Goldswain and Smallwood</i>		A meta-analysis of opportunistic behaviour in public-private partnerships: manifestations and antecedents – <i>Qu and Loosemore</i>	Incentive contracting in construction – <i>Kwawu and Laryea</i>	Understanding complexity in the AEC Industry – <i>Wood, Piroozfar and Farr</i>

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
	<i>4 papers</i>	<p>Time keeps on slippin', slippin', slippin' into the future: BIM, imaging and time on construction sights – <i>Raisbeck</i></p> <p>Making changes in practice: an ethnographic study of a hospital project – <i>Shipton and Hughes</i></p> <p>Making sense of innovation in the UK construction sector – <i>Sergeeva</i></p> <p>Application of the principal-agent theory to construction management: literature review – <i>Ceric</i></p>	<p>Indicators of environmental and productivity performance for building refurbishment projects – <i>Sezer</i></p> <p>Weak management of the predictability of contingency allowance in construction projects in Nigeria – <i>Bello and Odusami</i></p> <p>Trust, mistrust and distrust in alliancing - <i>She</i></p> <p>The role of 'greening' and an ecosystem approach to enhancing construction ergonomics – <i>Obiozo and Smallwood</i></p>	<p>Reducing building electricity use by increasing occupant perceived control – <i>Yearley, Hyde and Box</i></p> <p>The increasing development of publications on sustainable procurement and issues in practice – <i>Laryea, Alkizim and Ndlovu</i></p> <p>Development of a measure to assess attitudes towards sustainable development in the built environment: a pilot study – <i>Brennan and Cotgrave</i></p> <p>Corporate environmental strategies and performance: a longitudinal study – <i>Gluch, Gustafsson, Thuvander and Baumann</i></p>	<p>Strategy framework for post-construction contractor services – <i>Gruneberg</i></p> <p>Serendipitous innovation: enablers and barriers in the construction industry - <i>Loosemore</i></p> <p>Problematisation of the shift from products to services – <i>Morrey, Dainty, Thomson and Pasquire</i></p> <p>The effects of business environments on corporate strategies and performance of construction organisations – <i>Oyewobi, Abimbola and Rotimi</i></p>
14:45	15:15	COFFEE / TEA			Concert Hall & Mezzanine

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 <i>Chair: Dr Fred Sherratt</i>	Knowledge Management and IT 2 <i>Chair: Dr Chika Udejaja</i>	Sustainability – Theory and Strategy 3 <i>Chair: Prof Chris Gorse</i>	Construction Design and Technology 1 <i>Chair: Dr Stephen Gruneberg</i>	
3 papers		Construction studies in higher education and the use of digital technology – <i>Ancell</i>	Messages in bottles: the fallacy of transferring knowledge between construction projects – <i>Hartmann and Dorée</i>	Preserving continuity in whole-life cost models for net-zero carbon buildings – <i>Tokede, Sloan and Brown</i>	A decision evaluation model (DEM) to choose between manufacturing off-site or on-site methods for construction of house building projects – <i>Elnaas, Ashton and Gidado</i>	
		Do educational mismatches influence job satisfaction? The case of Spanish building engineering graduates working as site managers – <i>Fuentes-del-Burgo and Navarro-Astor</i>	My cost runneth over: data mining to reduce construction cost overruns – <i>Ahiaga-Dagbui and Smith</i>	Green marketing in housing: reality or rhetoric? – <i>Bevan and Lu</i>	An exploratory study of information maturity in construction and developing a decision-making model – <i>Zou, Flanagan, Jewell and Tang</i>	
		Assessing learning and teaching strategies of a post-graduate capstone course: students’ perspective – <i>Ellis, Petersen and Lewis</i>	Method-based learning: a case in the asphalt construction industry – <i>Bijleveld and Dorée</i>	An appreciation of BREEAM relative to the cosmologic idea of reality – <i>Moir and Carter</i>	Journeys through the CAVE: The use of 3D immersive environments for client engagement practices in hospital design – <i>Tutt and Harty</i>	
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				

WEDNESDAY 4th SEPTEMBER

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

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

WEDNESDAY 4th SEPTEMBER

11:15	11:45	COFFEE / TEA				Concert Hall & Mezzanine
Session 9		9A: Concert Hall	9B: Victoria Hall	9C: Waterhouse	9D: Silverthorne	
11:45	12:50	Building Information Modelling <i>Chair: Dr Chika Udejaja</i>	Sustainability in Practice 2 <i>Chair: Dr David Blackwood</i>	Inter-Organisational Relationships and Supply Chain Management 2 <i>Chair: Dr Scott Fernie</i>	Organisational Strategy and Business Performance 2 <i>Chair: Dr Ani Raiden</i>	
	<i>4 papers</i>	Supporting future-proof healthcare design by narrowing the design space of solutions using building information modelling – <i>Krystallis, Demian and Price</i> Evaluating the benefits of BIM for sustainable design – a review – <i>Dowsett and Harty</i> BIM collaboration: a conceptual model and its characteristics – <i>Lu, Zhang and Rowlinson</i> BIM in facility management and maintenance- the case of Kaisa library of Helsinki University – <i>Korpela and Miettinen</i>	The role of beneficiaries’ participation in South Africa low-income housing occupants’ satisfaction – <i>Aigbavboa and Thwala</i> Decision support framework for low impact housing design in the UK – <i>Baba, Mahjoubi, Olomolaiye and Booth</i> Green choices: the influence of socio-technical parameters on householder decision making in green retrofit projects – <i>Lang, Glass, Goodier, Ghumra and Wilks</i> Sustainable intermodal transportation of prefabricated construction materials – <i>Heljedal and Persson</i>	The role of the supply chain in elimination and reduction of construction rework and defects: an action research approach – <i>Taggart, Koskela and Rooke</i> How can supply chain management proliferate in South African construction? – <i>Emuze and Smallwood</i> A logistics framework for improving construction supply chain performance – <i>Thunberg and Persson</i> The impact of varying asset specificities of subcontractors on relationships development in construction – <i>Blay-Armah and Ross</i>	A critical review of response strategies adopted by construction companies during an economic recession – <i>Tansey, Meng and Cleland</i> Understanding the polarized perspectives in BIM enabled projects – <i>Cidik, Boyd and Thurairajah</i> Strategic management competencies in Scandinavian contractors – <i>Koch and Buhl</i> Implementing an offsite construction strategy: a UK contracting organisation case study – <i>Vernikos, Goodier and Robery</i>	
12:50	13:10	Closing comments and Looking ahead to ARCOM 30 th Annual Conference, Portsmouth, 2014				Concert Hall
13:10		LUNCH				The Three B’s Restaurant
14.00 to 17.00	ARCOM-CIOB Joint Workshop: <i>‘Connecting Academia and Industry in Innovation and Research’</i>				Concert Hall, Town Hall	