

Jointly Organised by



WEDNESDAY-THURSDAY

15th-16th
FEBRUARY 2012

Conference Hall 1
Kuala Lumpur Convention Centre

2-days International Construction Conference 2012

Challenges Of Global Mega Projects

– Modernising Construction For Project Excellence



In Collaboration With



Endorsed by



In Conjunction With


International
Construction Week

In conjunction with the 2012 International Construction Conference, a Construction Education, Training & Publication Exhibition will be organised during the Conference. Participants will be able to gather information on the prevailing construction related educational courses and construction continuing professional development training programmes by some local universities and colleges.

Jointly Organised by



1.0 Purposes & Objectives

- Showcase on excellent concept & design development procurement delivery system, construction engineering, technology & methodology, as well as overall construction & project management in mega projects,
- To promote, impart & enhance knowledge & practices to improve efficiency, productivity & competitiveness.

2.0 Proposed Concept

ICC2012 will consists of four (4) parts, namely,

- Conference Paper** presentation on Challenges of Mega Projects by International as well as local speakers & industry practitioners
- Technical Paper** presentation by trade & building material as well as plant & machinery suppliers & manufacturers on latest technology & construction methodology.
- Post-conference Project Visit** to project sites of interest to the Conference Participants
- Mini Exhibition** by Institutions of Higher Learning on construction courses & programmes, Publishers on construction books & publications & Information Technology Providers on latest construction software for the industry.

3.0 Conference Paper Presentation

- Focuses on project-based presentation by professionals, practitioners & builders from each & every identified mega project on the following areas
- Each presentation shall focus on one or more of the following:
 - Innovative & Creative Project Concept &/Or Design
 - Effective & Efficient Construction Methodology & Technique
 - Excellent Environmental Sustainability & Green Technology
 - Competitive Economic Sustainability
 - Productive & Cost Efficient Project Buildability & Constructability
 - Total Quality Management (TQM) in Construction Project Management
 - Industrialized Building System (IBS)
 - Project Time & Program Management
 - Project Risk Management, Contract Administration & Procurement Delivery System
 - Other Innovative & Creative, Efficient & Effective Supply & Value Chain Management
 - Building Information Modelling (BIM)

Topics of interest for the above may include practices on Lean Construction, Recycling of Construction Waste, Waste Management, Green Technology, Life Cycle Costing & Value Management, Modularisation & Standardisation of building components, Productive Performance & Strategy for Improvement, etc.

4.0 Technical Paper Presentation On Modern & Advance Technologies, Components, Products, Methodologies & Techniques

- Focuses on technical paper presentations by producers, manufacturers & corporations in new, modern or advance construction or engineering technologies, components, products, methodologies & techniques
- Target four(4) technical papers, 30 minutes each inclusive of Q&A

5.0 Post Conference Project Visit

- Two project visits, one in the morning & one in the afternoon will be targeted on the 3rd day. The Organising Committee has tentatively target to have a site visit on Sustainability & another on Industrial Building System (IBS)

6.0 Mini Exhibition

- In conjunction with the ICC2012 conference, the Construction Courses & Programmes, Publication Exhibition on the prevailing construction related educational courses & construction continuing professional development training programmes by local universities & colleges & books & publications on construction & construction related software such as the BIM & the like will be organised during the conference

7.0 Our Definition Of Mega Projects

- Projects either recently completed or under-construction, that display a degree of complexity, sophistication, innovation & creativity with uniqueness or state of the art of their own in terms of designs, engineering & technology, procurement, contractual arrangement & administration, project planning & construction methodology, facilities & services, or overall construction & project management.
- Construction cost for each of the mega project is preferably not less than RM500Million

8.0 Target Participants

- Developers, Owners or Government Officials
- Bankers, Financial Institutions or Government Agencies
- Directors, Chief Executives, Chief Operating Officers, Senior Managers or Managers
- Superintending/Maintenance Officers
- Town Planners, Architects, Engineers or Quantity Surveyors
- Project/Building/Construction Management Professionals or Cost/Claims Consultants
- Project Managers, Commercial/Contracts Managers, Site Managers or Building Managers
- Main Contractors/ Sub-Contractors/ Suppliers
- Construction Lawyers/ Practitioners/ Academia

9.0 Language & Medium Of Presentation

- English

2-days International Construction Conference 2012

Challenges Of Global Mega Projects – Modernising Construction For Project Excellence

Tentative Program

DAY ONE - PROGRAMME

Wednesday, 15 February 2012

08:10 – 09:00 Registration

09:00 – 09:10 **Welcome Address**

09:10 – 09:30 **KEYNOTE ADDRESS**
By **YBhg. DATUK HAMZAH HASAN**
Chairman, CIDB Malaysia

09:30 – 09:50 Tea & Coffee Break

SESSION I

MODERATOR : President, PAM

09:50 – 10:50 **PAPER I**
– PERFORMANCE IMPROVEMENT TO ACHIEVE BEST PRACTICE - LESSONS LEARNED FROM UK MEGA CLIENTS

Whilst significant change programmes in the UK construction sector have been undertaken in the last decade or so, concentration has focussed primarily on new forms of procurement, the integration of design and production teams, and the selection of contractors and consultants based upon performance. Tried, tested and proven improvements in safety, quality, professional competence, and evidence of delivery are essential if industry is to achieve permanent and sustainable gains. The presentation will highlight the performance measurement, benchmarking and key indicator developments and techniques used – not just as part of the change programmes but as justification for the initiatives. It will also give examples of a particular Mega Client's improvement over a 10 year period as well as general industry improvement.

10:50 – 11:20 Q & A Session

11:20 – 12:20 **PAPER II**
– EFFECTIVE GOVERNANCE OF MEGA PROJECTS USING REAL-TIME IT AND RFID TECHNOLOGY

Due to increased demand for products and services, largely caused by globalisation, the current global financial situation and changing political landscapes, there is a need to deliver projects faster or sooner than their predicted completion dates by project teams. This requires better project management processes that are flexible and allow the project team to effectively and efficiently deliver the project. Traditional project reporting has largely focused around the production of monthly reports that are completed after the month end date. This means that the report is largely historic and does not provide sufficient precise of the current situation. As a client, this can seem frustrating, as a problem may be brewing but not being reported upon due to the time lag between real-time and month end. In order to overcome this situation, the author proposes a governance framework consisting of Key Performance Indicators (KPIs) and real-time reporting.

12:20 – 12:50 Q & A Session

12:50 – 13:20 **TECHNICAL PAPER PRESENTATION ON CONSTRUCTION PRODUCTS & Q & A SESSION (BY SPONSOR)**

13:20 – 14:20 Lunch

SESSION II

MODERATOR : President, MBAM

14:20 – 15:20 **PAPER III – IBS AFFORDABLE HOUSING AND 1PRIMA**

15:20 – 15:50 Q & A Session

15:50 – 16:10 Tea & Coffee Break

16:10 – 17:10 **PAPER IV**
– IMAGINEERING THE FUTURE OF CONSTRUCTION PROCUREMENT IN THE INTERNATIONAL CONSTRUCTION MARKET FOR MALAYSIAN COMPANIES

The new world order for procurement is changing with the emergence of new technologies, new methods of financing, and new competition. Globalisation has impacted the construction sector by imposing new standards, more demanding public and private sector clients, and new ways of procurement. Construction projects still have lots of risk, lots of uncertainty, and many challenges to plan, design, engineer, construct, and operate. Clients want greener projects built on time, safer and on budget. The future is very difficult; we tend to overestimate change in the short term, and understate it in the long term. A decade ago, nobody would have envisaged that some international professional service firms would have 40,000 plus payroll staff; or that contractors would embrace professional services in the way that is happening now, and that some international construction companies would have over 150,000 on the payroll. The traditional boundary between the professional service firm and the contracting community is blurring. Technology is the enabler with globalisation as the catalyst. The integration of design and production is happening faster in a world of increasing environmental pressure, ethical responsibility and regulatory pressures. The difference today is that the traditional design-bid-build approach, where the lowest bidder wins the work, is taking on a new form. Globalisation with advances in information and communication technologies has brought more inter-connectivity and more inter-dependency, yet most of our systems were devised for a more simplistic world. Competition is not what it used to be. The challenge is how Malaysian companies can make the most of their competitive advantage in this new fast-changing inter-connected world. For Malaysian companies to succeed, they need to imagine the future, they can no longer drive using the rear-view mirror.

17:10 – 17:40 Q & A Session

17:40 END OF DAY 1

DAY TWO PROGRAMME**Thursday, 16 February 2012****08:10 – 09:00** Registration**SESSION III****MODERATOR : President, IEM****09:00 – 10:00****PAPER V - USING VIRTUAL CONSTRUCTION TO IMPROVE THE PRODUCTIVITY OF THE CONSTRUCTION INDUSTRY**

The inherent uncertainty and complexity of construction work makes construction planning a particularly difficult task for project managers due to the need to anticipate and visualize likely future events. Conventional computer-assisted technology can help but is often limited to the constructability issues involved. Virtual prototyping, however, offers an improved method through the visualisation of construction activities by computer simulation – enabling a range of 'what-if' questions to be asked and their implications on the total project to be investigated. This presentation describes the use of virtual prototyping to optimize construction planning schedules by analyzing resource allocation and planning with integrated construction models, resource models, construction planning schedules and site-layout plans. A real-life case study is presented that demonstrates the use of a virtual prototyping enabled resource analysis to reallocate space, logistic on access road and arrange tower cranes to complete a complex construction process.

10:00 – 10:30 Q & A Session**10:30 – 10:50** Tea & Coffee Break**10:50 – 11:50****PAPER VI - INNOVATIVE BUILDING SOLUTIONS AT CONCEPT, PLANNING AND DELIVERY: 3 CASE STUDIES**

Atkins provides award winning interdisciplinary design solutions around the globe. Within this portfolio of work, we are proud to showcase three projects where innovative solutions have been required to address specific design issues. These projects have been selected to illustrate how innovation can occur in different ways:

1. Innovative response to site constraints Our Hotel project, Shimao Intercontinental, Songjiang demonstrates an innovative and creative solution to meeting the client's requirements within strict planning constraints, and in so doing provides a sustainable project which regenerates a problem area outside Shanghai.
2. Innovative technical solutions The World trade centre, Bahrain has been recognized and televised around the world for its innovative solution to energy generation. However, there were challenges facing the designers, and our presentation will discuss some of the technical solutions achieved.
3. Innovative project planning Although championed by MTR in Hong Kong, Transport Oriented Development (TOD) is an innovative solution to vehicular congestion within our cities, and offers win/win benefits to the transport agencies, commercial developers and travelling public. Atkins have been providing TOD projects in Europe, USA and Asia, and will showcase Birmingham New Street Station, UK as an example of innovative TOD solutions.

11:50 – 12:20 Q&A SESSION**12:20 – 12:50** **TECHNICAL PAPER PRESENTATION ON CONSTRUCTION PRODUCTS & Q & A SESSION (BY SPONSOR)****12:50 – 14:00** LUNCH**SESSION IV****MODERATOR : President RISM****14:00 – 15:00****PAPER VII****- CHALLENGES OF BUILDING THE NEW SECOND AVENUE SUBWAY NEW YORK CITY**

A new Subway Line (added to the vast NYC Subway System) on the east side of Manhattan with 8.5 miles of new track, 16 new stations, 1 renovated station, 2 service lines (T & Q) which links to the existing Q line plus yards for 28 trains and transfer connections to 7 other rail lines in the City. Project implemented sustainable transit design guidelines. US \$16 Billion. New and old technology designed to blend for best performance

15:00 – 15:30 Q&A SESSION**15:30 – 16:00** TECHNICAL PAPER PRESENTATION ON CONSTRUCTION PRODUCTS & Q&A SESSION (BY SPONSOR)**16:00 – 16:20** Tea & Coffee Break**16:20 – 17:20****PAPER VIII****- GREEN BUILDING PRACTICES IN SHANGHAI TOWER**

Shanghai Tower is located at the heart of the Lujiazui Finance & Trade Zone. While the building's operable floors will reach up to 580 meters, the building's total height will be 632 meters. Shanghai Tower's construction area is 576,000 square meters in all, 380,000 square meters of which are above-ground. Additionally, about 33 percent of the site will be reserved for public green space. After its completion, the Shanghai Tower will be part of a harmonious skyscraper community, side by side with the Jinmao Tower and the World Financial Center. Together the trio will redefine the Lujiazui area skyline and provide it with a new look, which will in turn demonstrate the results of Pudong New Areas. The main function is the project office, hotels, large-scale international conference center and cultural, business, entertainment, tourism and leisure and other facilities. It will be the formation of international top office business center, and lead to sustainable development and high-rise building. Driven to pursue the "highest, noblest and most exquisite" design and development objectives for Shanghai Tower, the corporation is leveraging more than 10 years of construction management and market expertise to deliver a landmark building worthy of Shanghai's place on the world stage.

17:20 – 17:50 Q&A SESSION**POST CONFERENCE VISIT****Friday, 17 February 2012 (OPTIONAL)****08.00** Registration**08.30** Bus departs from KLCC**09.30** Arrival at Pullman Hotel, Precinct 5, Putrajaya**09.40** Presentation of Putrajaya as Green City by Putrajaya Holding**10.30** Q & A**10.45** Refreshment**11.15** Ends & bus departs from Putrajaya

Speakers



PAPER 1 – PERFORMANCE IMPROVEMENT TO ACHIEVE BEST PRACTICE - LESSONS LEARNED FROM UK MEGA CLIENTS

By **Mr. ALAN CRANE I CBE** - FCIQB; C.Eng; FICE; FCMI; FFB;

President, Chartered Institute Of Building

Alan has spend 40 years in the construction industry, has held CEO COO appointments with Bovis International, Travels Morgan Consulting and Christiani & Nielsen Groups; been responsible for a Wide range of major projects including Canary Wharf in London, Eurodisney Paris and KLCC/Petronas Towers in Malaysia. His Extensive international experience includes Europe, Middle and Far East, Asia and Australia. He currently operates an independent consultancy advising clients, Designers and contractors on construction, procurement and Business improvement. Alan is President of the Chartered Institute of Building and is currently A member of the UK Building Regulations Advisory Committee, and Chair of BCPSAG. Following the issue of Sir John Egan's "Task Force Report "Rethinking Construction" in late 1998 he was asked by the Government and Industry to establish and Chair the Movement for Innovation(M4i) and the subsequent Rethinking Construction Body The UK Construction Industry Key Performance Indicators and Benchmark system. He has advised Industry/Government bodies in Australia, Hong Kong, Singapore, Denmark, Sweden, Greece, South Africa, India,, Chile and most recently China.



PAPER II – EFFECTIVE GOVERNANCE OF MEGA PROJECTS USING REAL-TIME IT AND RFID TECHNOLOGY

By **DR. TAHIR HANIF** - PhD MSc MCIQB MAPM MACostE MIC CMC MRICS

Project Control Specialist, Public Works Authority (ASHGHAL), Doha, State of Qatar.

I am construction professional with 23 years experience of working in the UK and now in the State of Qatar. I am a Chartered Builder, Professional Project Manager, Cost Engineer, Certified Management Consultant and a Chartered Surveyor by professional background. I have completed a PhD in Project Management, MSc in Construction Management and a Higher National Diploma in Civil Engineering. I passionately believe in achieving personal goals and motivating others. To this end I am have also been guest lecturing at Kingston University, University of Reading and Oxford Brookes University. I teach project management and project controls to students study for a variety of course at Master level.



PAPER III – IBS AFFORDABLE HOUSING AND 1PRIMA

By **YBhg. PROFESSOR DATO' DR. Sr KAMARUL RASHDAN H.J. SALLEH**

Executive Director, Syarikat Perumahan Negara Bhd

He was appointed to the Board of Directors as the Managing Director on 1 July 2009. He hails from Ipoh, Perak and was born on 5 January 1972. He is an Honorary Visiting Professor of the School of The Built Environment, University of Salford. He is also a Chartered Quantity Surveyor in the UK (Member of the Royal Institution of Chartered Surveyors UK), a Registered Quantity Surveyor in Malaysia (Member of the Institution of Surveyor Malaysia) and a Member of the British Institute of Facilities Management UK. He obtained his PhD, Construction Econometrics from the University of Salford UK, Mphil Facilities Management from the University of Strathclyde, UK, BSC. (Hons) Quantity Surveying from the Glasgow Caledonian University UK and Diploma Quantity Surveying from the Institut Teknologi MARA Malaysia



PAPER IV – IMAGINEERING THE FUTURE OF CONSTRUCTION PROCUREMENT IN THE INTERNATIONAL CONSTRUCTION MARKET FOR MALAYSIAN COMPANIES

By **PROFESSOR ROGER FLANAGAN** - MSc; PhD; DSc(Hon); PPCIOB; FRICS; FICE;

Professor of Construction Management, School of Construction Management and Engineering, University of Reading, Whiteknights, Reading RG6 6AW, UK Visiting Professor, UniversitiTeknologi Malaysia (2009-2011), Tsinghua University, Beijing (2009-2013), University of Hong Kong (2011-2013), Chongqing University (2006-ongoing) Previously visiting Professor Sweden, Norway, USA, Australia, South Africa, Turkey, Croatia, China Past President (2006-7) of the Chartered Institute of Building (CIOB) Chairman of the CIOB Education, Qualifications, and Standards Boards Member of the Royal Institution of Chartered Surveyors UK World Regional Board (2009-2013) Member of the Advisory Board of the Association of Consulting and Engineering (2006-ongoing) Experience of working in UK, Middle East, USA, Canada, Sweden, Finland, Norway, Australia, New Zealand, South Africa Undertaken studies for the development of the construction industry in the UK, USA, Canada, Korea, Sweden, Norway, Libya, and Estonia.



PAPER V - USING VIRTUAL CONSTRUCTION TO IMPROVE THE PRODUCTIVITY OF THE CONSTRUCTION INDUSTRY

By **PROFESSOR HENG LI** - Chair Professor; PhD; Director, Construction Virtual Prototyping Lab.

Professor Heng Li is a Chair Professor of Construction Informatics at The Hong Kong Polytechnic University. Heng started his academic career from Tongji University since 1987. Heng then researched and lectured at the University of Sydney, James Cook University and Monash University before joining Hong Kong Polytechnic University. During this period, Heng have also worked with engineering design and construction firms and provided consultancy services to both private and government organizations in Australia, Hong Kong and China. Heng has conducted many funded research projects related to the innovative application and transfer of construction information technologies, and he has published 2 books, more than 200 journal papers in major journals of his field and numerous conferences papers in proceedings



PAPER VI - INNOVATIVE BUILDING SOLUTIONS AT CONCEPT, PLANNING AND DELIVERY: 3 CASE STUDIES

By **Mr. JASON HUTCHINGS** - BA (Hons) in Architecture (RIBA stage 1); Postgraduate Dip in Architecture (RIBA stage 2); Masters Degree in Interdisciplinary Design and Management, Hong Kong University HKIA; ARB (UK and HK) Registered Architect; RIBA

Jason has 25 years experience in the Architectural profession of which 17 years have been in SE Asia working in design studios such as Arup Associates, Rocco Design, Aedas, RMJM and Atkins. Through projects like the Landmark Mandarin (Hongkong Land) and Hong Kong Station (MTR), Jason has brought practical on-site experience into the design of subsequent mega-projects like the 1-million sqm Sands Casino, Macau (Parcel 7&8), Admiralty Station and Abu Dhabi Cultural District. Jason has been responsible for projects in Europe, the Middle East and throughout the Asia Pacific region. As one of the world's largest multi-disciplinary consultancies, Atkins provides a platform for Jason to apply his Master's Degree in Interdisciplinary Design Management to complex mixed-use projects. This work is leading to increased integration between transport infrastructure and commercial development, and is particularly relevant to consideration of large scale planning and mega projects.



PAPER VII - CHALLENGES OF BUILDING THE NEW SECOND AVENUE SUBWAY New York City

By **Ms. PORIE SAIKIA-EAPEN AIA; FCIQB ;**

Business Vice President & Area Manager, CH2M Hill

Porie Saikia-Eapen serves as the Business Vice President & NY Area Manager for CH2MHILL. Her award-winning, distinguished career in the design and construction industry spans 28 years, where she has demonstrated leadership skills as an effective manager, communicator, and innovator. She holds an architectural license in the US and fellowship at CIOB UK. During her career she has served in the capacity as owner, owner's agent, and consultant. She is a recognized public speaker on sustainability, urban design, urban mobility, delivery, resource development in USA and abroad to academia and design/construction professionals at conferences in UK, Switzerland, Mexico, Korea, Russia, Argentina, India, Thailand, Ireland, Vietnam, Turkey, Austria, China, Malaysia, Finland & North America.



PAPER VIII – GREEN BUILDING PRACTICES IN SHANGHAI TOWER

By **Miss JING SUN**

National Registered Supervision Engineer;

Deputy General Manager, The Fourth Affair Department Shanghai Jianke Engineering Consulting Co., Ltd

Bachelor in Structural Engineering; Master in Material Science

2-days International Construction Conference 2012

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ICC 2012 Two-day Conference (15-16 FEBRUARY 2012) Category of Conference Participants & Fees Payable	Standard Registration Fee		Post-conference Project Visit (17 FEBRUARY 2012) (Optional)	
	One(1) Day	Two (2) Days	Category of Participants	Fees
Member of CIOB, Supporting Organisation, Conference Co-organisers, Or Endorsing Organisations	RM 500.00	RM 750.00	ICC2012 Conference Participants	RM 80.00
General Public	RM 600.00	RM 900.00	Non-conference Participants	RM 120.00
Full-time Academic Students Pursuing Approved Construction Related Courses (Please Attach Letter of Verification From College/University Authority Concerned)	RM 400.00	RM 600.00		

Please register our organisation's participation for the above conference as follow :

Name	Profession/ Designation	Day 1 Conference (15 Feb12)	Day 2 Conference (16 Feb12)	Post Conference Project Visit (17 Feb12)	Member of CIOB, Co-Organisers Or Endorsing Organisations		Amount (RM)	
					Name of Organisation	Membership No.		
							Payment Amounting (RM)	

Please note that the registration will only be considered when full payment with all necessary documents are received by CIOB Malaysia within the stipulated period on a "first come first served" basis. Cancellation of registration is not permitted. However written request for substitution of similar category of participant will be considered favourably (terms and conditions apply).

Please write in block letters.

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Contact Person : Email :

Designation: Tel : Fax :

Company Address :

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Bangsar Utama, 59000 Kuala Lumpur

Tel : 603-2284 5754 Fax : 603-2284 9754

Email : achen@ciob.org.my (Attn Ms Audrey Chen)

*Participants holding valid CIOB Membership card will be entitled to CIOBM training vouchers worth RM50 for each day of the conference attended (terms and conditions apply).

If warranted by circumstances beyond its control, the organizer reserves the right to change the programme, venue, speakers, date and time of the event. In the event of cancellation of the conference by the organizer, the organizer's liability is limited to a full refund of the Conference Fees received only.

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