

5th World Congress and Exhibition on

CONSTRUCTION AND STEEL STRUCTURE

&

World Congress on

CONCRETE STRUCTURES & CONCRETE TECHNOLOGY

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Innovation in steel construction, design and performance with a case study on full scale lateral impact response of beam-to column connections

My presentation/ lecture is also perfect platform for opining up some questions on a major problem surrounding innovation in steel structures; construction, design and performance that has arouse the interest of contactors, designers, architectural engineers and researchers for some time. The questions confront us because, i) no obviously satisfactory answer is readily apparent, ii) the problem itself is not yet apparent to many people and after completing my lecture/presentation the audience will be brought to the questions at least and thus If we can get that far, our time will be very well spent. The questions we should address are; Why Innovation, How Innovation is different from science, engineering and inventions, what are the factors/characteristics for nurturing innovation culture in steel industries. I will cast a concise lights on the above and prove that by adapting; One-Strong leadership committed to innovation, Two-Minimal hierarchy in decision making, Three- Commitment to deliverables and implementation, Four-Values disparate talents & entrepreneurship, Five- Value the creative and unconventional ideas, Six- Moves quickly and adapts readily and Seven- willingness to accept failures, the culture of innovation in steel construction industry can be nurtured. The presentation will be concluded by showing a video displaying the results of a full-scale research case study on lateral impact response of steel end plate beam to column connections and compared with finite elements modling. Coloured photos showing the behaviour of the tested elements will be displayed too.

Biography

Hassan Al Nageim is a Professor of Structural Engineering. His; BSc (Hons) in Civil Engineering from University of Baghdad, MSc in Structural Engineering University College Cardiff, UK and PhD in Civil and Structural Engineering from Heriot-Watt University, UK. In 1977-1979, he has established the new Technology Department at Babylon (Hilla) Technical Institutions, Iraq and worked as a Head of Department. 1983 -1985, he worked as a consultant structural engineer at the Kuwait National Petroleum Company representing the British Inspection X-Ray company. 1989-Date, he worked as a Senior Lecturer, Reader (Associate Professor) in Structural Engineering and in 2003-to date promoted to full Professor in Structural Engineering at Liverpool John Moores University, UK. With main roles of taking the lead of Advanced Structural Design and Pavement Engineering subject area, including design and analysis of steel structures, bridges, concrete structures, pavement engineering: design, evaluation and materials developments. Professor Al Nageim is a regular speaker and keynote speakers at different national and international conferences and a consultant to many companies worldwide in the field of structural design and materials innovations and developments. He has published more than 140 scientific conference and journal papers and two books entitled: Structural Mechanics published by Pearson Education; Steel Structures: Practical Studies published by Taylor and Francis. Professor Hassan main research interest's area is in structural & pavement engineering design and evaluations including innovations in materials technology. Professor Al Nageim is also: A Chartered Engineer and a member of the British Engineering Council, the Founder and Chief Editor of the International Journal of Pavement Engineering & Asphalt Technology, established in 2001, ISSN 1464-8164, the Founder and Chairman of the international annual conference on Pavement Engineering, Asphalt Technology, Sustainable Materials, and Infrastructures, A Fellow of the British Institution of Non-Destructive Testing, UK and a Fellow of the Chartered Institution of Highways and Transportation UK.

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