

# Creative Construction Conference 2012

June 30, 2012 - July 3, 2012 - Budapest

## Detailed Program

### Saturday - June 30, 2012

|       |       |                   |
|-------|-------|-------------------|
| 14:00 |       | Registration      |
| 18:00 | 20:00 | Welcome Reception |

### Sunday - July 1, 2012

|       |       |   |  |  |
|-------|-------|---|--|--|
| 9:30  | 9:45  | Welcome and Introductions   |  |  |
| 9:45  | 10:30 | Keynote Speech 1  | Miroslaw Skibniewski   | Creativity in Construction: an Engineering Approach  |
| 10:30 | 11:00 | Coffee Break  |  |  |
| 11:00 | 12:00 | <b>Creative Management: Dennis C. Bausman</b>   | <b>Sustainable Construction: Shafik Jendia</b>   | <b>Automation and Robotics: Miroslaw Skibniewski</b>   |
|       |       | Alberto DE MARCO, Muhammad Jamaluddin THAHEEM, Sabrina GRIMALDI, Carlo RAFELE: <i>A Framework Methodology for Selection of Risk Analysis Techniques in Construction Projects</i>                                    | Gray MULLINS, Rajan SEN, Danny WINTERS, Michael STOKES, Julio AGUILAR: <i>Sustainable FRP Repair Using External Pressure</i>   | Thomas BOCK, Thomas LINNER, Christos GEORGIOULAS, Melanie MAYR, Johannes MEYER-ANDREAS: <i>Innovation Deployment Strategies in Construction</i>  |
|       |       | Tamás TÓTH, Zoltán SEBESTYÉN, Miklós HAJDU: <i>Financial Risk Management Aspects of Construction Projects</i>   | Pedro M. GAMEIRO HENRIQUES, Sara C. MORAIS NEVES: <i>Study of the Applicability of Construction Systems in the Performance of Sustainability in Civil Engineering</i>                  | Nabil Ibrahim EL SAWALHI: <i>Modelling the Parametric Construction Project Cost Estimate Using ANN</i>   |
|       |       | Cristóbal MOENA, Alfredo SERPELL: <i>Unit Price Estimating of Roads Maintenance Activities Using Exponential Robust Regression</i>  | Marco Lorenzo TRANI, Benedetta BOSSI, Luca GUASTALEGNONE: <i>Energetic Consumption Prediction on Construction Site</i>   | Cheng ZHOU, Lieyun DING, Ran HE: <i>PSO-based Elman Neural Network Model for Predictive Control of Air Chamber Pressure in Slurry Shield Tunneling</i>                                 |
|       |       | Christabel HO: <i>Situational Influences on Quantity Surveyors When Facing Ethical Dilemmas</i>   | Ibrahim ABDUL RASHID, Hesham BASSIONI, Faez BA-WAZIR: <i>A Tool for Assessing and Improving Safety Performance in Large Construction Companies in Egypt</i>                            |  |
| 12:00 | 13:30 | Lunch   |  |  |
| 13:30 | 14:30 | <b>Creative Management: Levente Mályusz</b>   | <b>Sustainable Construction: István Hajnal</b>   | <b>Creative Technology: Hassan Al Nageim</b>   |
|       |       | Refaat ABDEL-RAZEK, Hesham BASSIONI, Marwa TAHSEEN: <i>Managing Information and Communication Technology in Construction Firms: A Suggested Framework</i>   | Pedro M. GAMEIRO HENRIQUES, Nuno F. GODINHO TEODORO: <i>Contribution to Sustainability in Construction: Recycling and Reutilization of Materials</i>                                   | Chih-ming WU, Wen-der YU, Tai-shiuh CHEN: <i>Enhanced Function Modeling for Analysis of Innovative Construction Technologies</i>   |
|       |       | <del>Yong-Wook LEE, Seokjin CHOI, Seung Heon HAN, Jae-Jin LEE: <i>Selecting the Bridge Types through AHP Plus Conjoint Analysis Approach</i></del>  | <del>Dennis C. BAUSMAN, Snowil LOPES: <i>Post Occupancy Performance Evaluation of LEED Certified Buildings</i></del>   | <del>Ferenc MAKOVÉNYI: <i>Straw-bale Social Housing in Hungary</i></del>   |
|       |       | <del>Orsolya BOKOR, Tamás KOCSIS: <i>Then and Now: Cost Calculation of Construction Projects in the 20th and 21st Century</i></del>   | <del>Zvonko SIGMUND, Mladen RADUJKOVIĆ, Damir LAZAREVIĆ: <i>Integrated Seismic Risk Management – The Difference between the Codes and the Real Life Practice</i></del>                 | <del>Hassan AL NAGEIM, Monower SADIQUE: <i>Recycling of Industrial Wastes to Produce New Cement for Construction</i></del>   |
|       |       | Jeoung Hoon LEE, Moonseo PARK, Hyun-Soo LEE, Sungjoo HWANG, Myoung Gy MOON: <i>Analyzing Korean Building Construction Market Response to the Application of Performance Warranty Contract Using System Dynamics</i> | Menoka BAL, David James BRYDE, Damian John FEARON, Edward Godfrey OCHIENG: <i>The Influence of Stakeholder Engagement in Construction Sustainability</i>                               | Abbas AL-HDABI, Hassan AL NAGEIM, Felicite RUDDOCK, Linda SETON: <i>Cold Rolled Asphalt Surface Course Containing Waste Materials</i>  |
| 14:30 | 15:00 | Coffee Break  |  |  |
| 15:00 | 16:00 | <b>Creative Management: Alfredo Serpell</b>   | <b>Sustainable Construction: Rajan Sen</b>   | <b>Visualization, BIM: Miklós Hajdu</b>  |
|       |       | Muhammad Jamaluddin THAHEEM, Alberto DE MARCO, Kristen BARRISH: <i>A Review of Quantitative Analysis Techniques for Construction Project Risk Management</i>  | <del>Pyong-Su MIN, Woosik JANG, Seung Heon HAN, Kang Wook LEE: <i>Deciding Procurement Strategies for Construction Projects While Considering Off-Site Environmental Impacts</i></del> | Adrian ROBINSON, Jeremy WEDGE, Edward SAUVEN, Tony SWINDELLS, Alistair GIBB, Simon AUSTIN: <i>Embodied Carbon of Shipping Container Architecture Based on an ISO Standard Platform</i> |
|       |       | Božena HOŁA, Andrzej POLAK, Krzysztof GAWRON, Marek SAWICKI, Maciej MORKA, Wiktor GRONOWICZ, Miroslaw SKIBNIEWSKI: <i>Knowledge Maps for Small and Medium-Sized Construction Firms</i>                              | István HAJNAL: <i>Estimation of Value Modification Factor with Hedonic Modeling: A Case Study</i>  | Lars OBERWINTER, Iva KOVACIC: <i>Building Information Model Visualization through Javascript-Enhanced 3D-PDF Interfaces</i>  |
|       |       | Dennis C. BAUSMAN, Daniel R. MATTOX: <i>Quality Management. The Philosophy and Approach Utilized by Top Performing US Contractors</i>   | Serkan KIVRAK, Gokhan ARSLAN, Mustafa TUNCAN: <i>Impact of National Culture on Safety Management Practices in International Construction Projects</i>                                  | Zoltán ROSTÁS: <i>Using Visual Project Management Tools in Museum Development</i>  |
|       |       | Claus NESENHORN, David James BRYDE (presenting: Selim Tugra DEMIR): <i>A Review of the Evolution of Lean Construction</i>   | <del>Kamlesh PANTHI, Syed M. AHMED, James PATTERSON, John HILLMAN: <i>Safety Incentive Programs- Good or Bad Resource for Construction Companies?</i></del>                            | <del>Salman AZHAR, Samuel PHILIPS, Malik KHALEAN, Syed M. AHMED: <i>Applications of BIM for Facility Management: Case Studies</i></del>  |

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## Detailed Program

### Monday - July 2, 2012

|       |       |   |  |  |
|-------|-------|---|--|--|
| 9:45  | 10:30 | Keynote Speech 2  | John-Paris Pantouvakis   | Building Information Modelling (BIM) for Data Sharing & Collaborative Working in Construction  |
| 10:30 | 11:00 | Coffee Break  |  |  |
| 11:00 | 12:00 | <b>Creative Management: Ibrahim A. Alhammad</b>   | <b>Creative Management: Géza Lámer</b>   | <b>Visualization, BIM: John-Paris Pantouvakis</b>  |
|       |       | <b>Ka Chi LAM, Chen Yun YU:</b> <i>An Investigation to the Concession Period Length Determination of BOT Project</i>  | <b>Tünde JENEI:</b> <i>Analysis of the Potential Risks of Geothermal Investment, Risk Management Tools</i>   | <b>Gabriella SZENIK, Orsolya BOKOR:</b> <i>Analysis of Project Data by Applying Evaluation Lines</i>   |
|       |       | <b>Kareem ZAHRAN, Ahmed WALY:</b> <i>Applying Lean Thinking to Cement Plant Construction Process. Case Study on Silo Buildings</i>                                      | <b>Nicolae POSTAVARU, Radwan AKTAA, Cristina V. ICOCIU:</b> <i>Investment Management in Construction, within the Framework of the Projects Financed by E. U. in Romania for 2007 – 2014 and Perspective for 2020</i>   | <b>Agnieszka LEŚNIAK, Krzysztof ZIMA:</b> <i>Selected Problems of Cost Estimation Using BIM</i>  |
|       |       | <b>Aynur KAZAZ, Bayram ER, Serdar ULUBEYLİ:</b> <i>Applicability of Integrated Project Delivery System to Public Construction Projects in Turkey</i>                    | <b>Bilal ZAFAR, Rafiq Muhammad CHOUDHRY:</b> <i>Factors Affecting Competency of Masons in Construction</i>   | <b>Iva KOVACIC, Lars OBERWINTER:</b> <i>BIM-Supported Lifecycle-Oriented Design for Energy Efficient Industrial Facility - A Case Study</i>  |
|       |       | <b>Lu Chang PEH, Sui Pheng LOW:</b> <i>Case-Based Reasoning Decision Support System for Architectural and Engineering Consultancy Firms</i>                             | <b>Zlata DOLAČEK-ALDUK, Ksenija ČULO, Mario GALIĆ:</b> <i>Subcontracting in Croatian Construction Industry</i>   |  |
| 12:00 | 13:30 | Lunch   |  |  |
| 13:30 | 14:15 | Keynote Speech 3  | Kas Oosterhuis   | Next Generation Building   |
| 14:15 | 14:30 | Disperse to sessions  |  |  |
| 14:30 | 15:30 | <b>Creative Management: Muhammad J. Thaheem</b>   | <b>Creative Management: Orsolya Bokor</b>  | <b>Creative Scheduling: Zoltán Rostás</b>  |
|       |       | <b>Selim Tugra DEMIR, David James BRYDE, Damian John FEARON, Edward Godfrey OCHIENG:</b> <i>"Agilean Project Management" – Time for Change in Construction Projects</i> | <b>Géza LÁMER:</b> <i>Some Notes on the Definition of Risk and the Predictability of Risks</i>   | <b>Tarek HEGAZY, Wail MENESI:</b> <i>Construction Scheduling: CPM for Planning and CPS for Control</i>   |
|       |       | <b>Ibrahim Abdulla ALHAMMAD:</b> <i>Evaluation of Saudi Public Works Contract</i>   | <b>Bayram ER, Aynur KAZAZ, Serdar ULUBEYLİ:</b> <i>Just in Time in Construction Projects: A Case Study</i>   | <b>Miklós HAJDU:</b> <i>Impacts of Risks on Project Scheduling: Can the Optimistic Duration Be Greater Than The Pessimistic Duration?</i>  |
|       |       | <b>Shabtai ISAAC, Mohsen ANDAYESH, Farnaz SADEGHPOUR:</b> <i>A Comparative Study of Layout Planning Problems</i>  | <b>Andrzej MINASOWICZ, Janusz KULEJEWSKI, Andrzej FOREMNY, Paweł KLUCZUK, Aleksander NICAŁ:</b> <i>Construction Managers' Library as a New Method of Promotion, Certification and Mutual Recognition of Managerial Skills According to the EU Requirements</i> | <b>Augustin PURNUS, Victoria SHAVYRINA:</b> <i>Tools and Techniques for Decision Support in Construction Projects</i>  |
|       |       | <b>A. Tolga ILTER, Attila DIKBAS:</b> <i>A Review of Turkish Contractors' ICT Approaches</i>  | <b>Nicolae POSTAVARU, Illés KÁLMÁN:</b> <i>Construction Companies Investment Economical Efficiency Analysis</i>  | <b>Levente MÁLYUSZ:</b> <i>Prediction of Learning Curve in Roof Insulation</i>   |
| 15:30 | 16:00 | Coffee Break  |  |  |
| 16:00 | 17:00 | <b>Creative Management: Miklós Hajdu</b>  | <b>Creative Management: Nabil El Sawalhi</b>   | <b>Creative Technology: Hassan Al Nageim</b>   |
|       |       | <b>John-Paris PANTOUVAKIS, Antonios PANAS:</b> <i>Simulation Analysis for Floating Caissons Construction Operations</i>   | <del><b>Zoran CSKIC, Nebojsa SURLAN:</b> <i>Value Management Workshops in Western Balkans Projects</i></del>   | <b>Shafik JENDIA, Abed Al-hameed A. QREAO' A:</b> <i>Reuse of Recycled Aggregates of Demolition Building Debris as an Asphalt Binder Course in Road Pavements</i>  |
|       |       | <b>Joseph AHN, Hyun-Soo LEE, Moonseo PARK, Bo-Sik SON, Minhyuk JUNG:</b> <i>IFC-CBR Based Cost Model Framework Development</i>  | <b>Urszula RYCIUK, Mirosław SKIBNIEWSKI:</b> <i>Trust Management Issues in Construction Supply Chains</i>  | <b>Patcharaporn YANPIRAT, Tirayot THAMWONGSA:</b> <i>Product Cost Reduction of Ready-Mixed Concrete by Utilizing Manufactured Sand: A Case Study</i>   |
|       |       | <b>Yick-tat TSANG, S. Thomas NG, Ka Chi LAM:</b> <i>Selection of Financial Performance Indicators for Construction Companies in Hong Kong by Factor Analysis</i>        | <b>Andrzej MINASOWICZ, Janusz KULEJEWSKI, Andrzej FOREMNY, Paweł KLUCZUK, Aleksander NICAŁ:</b> <i>Distance Learning within Management in Construction - Polish and Norwegian Experiences with European Perspective</i>  | <b>Sherif MALEK, Kareem ZAHRAN, Ossama HOSNY, Ahmed ELHAKEEM:</b> <i>Integrating Artificial Neural Network &amp; Genetic Algorithm to Optimize High Performance Concrete Mix Design – A Management Perspective</i> |
|       |       | <b>Rizal SEBASTIAN:</b> <i>Development and Refurbishment of Energy-Efficient Residential Districts Based on Collective Self-Organised Housing Processes</i>             | <b>Renata KOZLIK, Elżbieta STARZYK:</b> <i>Anti-Crisis Regulation Introduced into the Public Procurement Law and Their Importance for the Construction Market in Poland</i>  | <b>Dávid BOZSAKY:</b> <i>Laboratory Tests and Comparative Analysis of Cornstalk Insulation Blocks</i>  |
| 19:00 | 22:00 | Gala Dinner   |  |  |

### Tuesday - July 3, 2012

|      |       |                       |  |  |
|------|-------|-----------------------|--|--|
| 9:00 | 16:00 | Excursion to Visegrád |  |  |
|------|-------|-----------------------|--|--|