

**Creative Construction Conference 2015**  
**June 21, 2015 - June 24, 2015 - Krakow**  
**Detailed Program**

Sunday - June 21, 2015		
14:00		Registration
19:00	21:00	Welcome Reception

Monday - June 22, 2015		
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9:00	9:15	Welcome and Introductions: <b>Miklós Hajdu, Chair of the International Organizing Committee</b>		
9:15	10:00	Keynote Speech 1 <b>Mirosław SKIBNIEWSKI: "Publish and Flourish" vs. "Publish or Perish": A Survival Dilemma for Construction Researchers</b>		
10:00	10:30	Coffee Break		
10:30	11:30	<b>Creative Management</b> Chair: Alfredo SERPELL <b>Jana KORYTÁROVÁ, Tomáš HANÁK, Renata KOZIK, Elżbieta RADZISZEWSKA-ZIELINA:</b> Exploring the contractors' qualification process in public works contracts <b>Nikolaos FRAGKAKIS, Marina MARINELLI, Sergios LAMBROPOULOS:</b> Preliminary cost estimate model for culverts <b>Yongcheng ZHANG, Hanbin LUO, Yi HE:</b> A system for tender price evaluation of construction project based on big data <b>István HAJNAL:</b> The determination of the market value of works in progress	<b>Sustainable Construction</b> Chair: John SMALLWOOD <b>Ibrahim AL-ABBADI, Ahmed SENOUCI, Neil ELDIN:</b> Safety improvement on building construction sites in Qatar <b>Bjorn HALE, Scott W. KRAMER:</b> Installation of solar panels in a residential setting: A feasibility study for a Southern U.S. City <b>Hsi-Hsien WEI, Igal M. SHOHEH, Mirosław J. SKIBNIEWSKI, Stav SHAPIRA, Robert LEVY, Tsafir LEVI, Amos SALAMON, Moti ZOHAR:</b> Assessment of casualty and economic losses from earthquakes in Israel — an semi-empirical model <b>Shuang DONG, Qin YIN, Heng LI:</b> Positive safety participation and assessment by integrating sharing technology with virtual reality	<b>Automation and Robotics</b> Chair: Mirosław SKIBNIEWSKI <b>Magdy IBRAHIM, Osama MOSELHI:</b> Enhanced localization for indoor construction <b>Anoop SATTINENI, Taylor SCHMIDT:</b> Implementation of mobile devices on jobsites in the construction industry <b>António AGUIAR COSTA, André ANTUNES, Pedro MIRA LOPES, Izunildo CABRAL, António GRILO, Filipe MARTINS RODRIGUES:</b> 3I Buildings: Intelligent, Interactive and Immersive Buildings <b>Lieyun DING, Shengyu GUO:</b> A big data-based workers behavior observation in China metro construction
11:30	11:45	Disperse to sessions		
11:45	12:45	<b>Creative Management</b> Chair: Zoltán SEBESTYÉN <b>Gul POLAT, Seyda BAYTEKIN, Ekin ERAY:</b> Mark-up size estimation in railway projects using the integration of AHP and Regression Analysis Techniques <b>Zhe LIU, Zhiliang MA:</b> Establishing formalized representation of specifications for construction cost estimation by using ontology learning <b>Edyta PLEBANKIEWICZ, Krzysztof ZIMA, Damian WIECZOREK:</b> Review of methods of determining the life cycle cost of buildings <b>István HAJNAL:</b> Optimization of building operational cost in the preparation process of public investment project	<b>Sustainable Construction</b> Chair: Igal M. SHOHEH <b>Oriol PONS, Ana NADAL, Esther SANYÉ-MENGUAL, Pere LLORACH-MASSANA, Eva CUERVA, David SANJUAN-DELMÀS, Pere MUÑOZ, Jordi OLIVER-SOLÀ, Carla PLANAS, Maria Rosa ROVIRA:</b> Roofs of the future: Rooftop greenhouses to improve buildings metabolism <b>John SMALLWOOD:</b> Optimising the elements of a construction health and safety (H&S) programme and audit system <b>Miaojia LU, Shu-Chien HSU:</b> A dynamic agent-based analysis for the sustainable high-speed railway: Case of Hong Kong	<b>Automation and Robotics</b> Chair: Mirosław SKIBNIEWSKI <b>Farnaz Sadeghpour:</b> A Probabilistic Accident Prediction Model for Construction Sites <b>Jacek OLEARCZYK, Muntaseer KAINAT, Joseph KOSA, Samer ADEEB, Mohamed AL-HUSSEIN:</b> Heavy lift rigging algorithm for construction operation (iRigging) <b>Lingguang SONG, Mohammed TANVIR, David STAYSHICH, Neil ELDIN:</b> Cost effective material tracking and locating solution for material laydown yard <b>Natalia BUZALO, Pavel ERMACHENKO, Alexej BULGAKOV, Natalia ZAKHARCHENKO:</b> Mathematical modeling of energy balance in the photobiological treatment plants
12:45	13:00	Company lecture by KNAUF		
13:00	14:15	Lunch		
14:15	15:00	Keynote Speech 2 <b>Mladen RADUJKOVIC: The Influence of PM Standards on Construction Industry</b>		
15:00	15:15	Disperse to sessions		
15:15	16:15	<b>Creative Management</b> Chair: István HAJNAL <b>Tamás TÓTH, Zoltán SEBESTYÉN:</b> Modelling approach for value-based project risk monitoring in the construction sector <b>Alfredo SERPELL, Ximena FERRADA, Rodolfo HOWARD:</b> Assessing the client's risk management performance in construction procurement and contracting: Case studies <b>Georg PIEK, John SMALLWOOD:</b> Risk management in construction contracting <b>Constanta-Nicoleta BODEA, Augustin PURNUS:</b> Educational simulation in construction project risk management – setting the stage	<b>Visualization, BIM</b> Chair: Miklós HAJDU <b>Marco L. TRANI, Manuele CASSANO, Davide TODARO, Benedetta BOSSI:</b> BIM standardization for construction site design <b>Conrad BOTON, Sylvain KUBICKI, Gilles HALIN:</b> 4D/BIM simulation for pre-construction and construction scheduling. Multiple levels of development within a single case study <b>Edyta PLEBANKIEWICZ, Krzysztof ZIMA, Mirosław SKIBNIEWSKI:</b> Construction cost and time planning using BIM-based applications <b>Radan TOMEK, Sergey KALINICHUK:</b> Agile PM and BIM: A hybrid scheduling approach for a technological construction project	<b>Creative Technology</b> Chair: Attila PÉM <b>David BOZSAKY:</b> Laboratory tests with liquid nano-ceramic thermal insulation coating <b>Sanita RUBENE, Martins VILNITIS:</b> Frequency analysis and measurements of moisture content of AAC masonry constructions by EIS <b>Darren A. OLSEN, J. Mark TAYLOR, Robert DEAN, Aubrey BEAL, Jamey FREEMAN:</b> The "Pinpoint Placement Tool" a cost effective solution for layout <b>Yurii BARABANSHIKOV, Svetlana BELYAEVA, Maria ANTONOVA, Sofia VASIUTINA:</b> Calculation of the temperature in ventilated air gap of reinforced concrete cooling tower
16:15	16:45	Coffee Break		

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Monday - June 22, 2015 - CONTINUED				
16:45	17:45	<b>Creative Management</b> Chair: Augustin PURNUS	<b>Visualization, BIM</b> Chair: Miklos HAJDU	<b>Creative Technology</b> Chair: Tomáš HANÁK
		<b>Ahmad BAGHDADI, Mohammed KISHK:</b> Saudi Arabian aviation construction projects: Identification of risks and their consequences	<b>Christoph MERSCHBROCK, Magnus NILSEN:</b> A virtual demonstration for engineering class: The case of beam deflections	<b>Abdulkader EL MIR, Salem Georges NEHME:</b> Porosity of self-compacting concrete
		<b>Xavier BRIOSEO:</b> Integrating ISO 21500 Guidance on Project Management, Lean Construction and PMBOK	<b>Miranda GRIFFIN, Scott W. KRAMER:</b> The U.S. Army Corp of Engineers traditional design review vs. A BIM review: A case study	<b>Hoon CHOI, Hyouk Sueng KWON, Dong Won SHIN, Han Seok KWON:</b> A case study on the expansion of power plant from simple cycle to combined cycle
		<b>Pablo ORIHUELA, Jorge ORIHUELA, Santiago PACHECO:</b> Implementation of Target Value Design (TVD) in building projects	<b>Manav Mahan SINGH, Anil SAWHNEY, André BORRMANN:</b> Rule based building components for modular coordination	<b>Wojciech DROZD, Damian PUŁECKI:</b> Multi-criteria comparative analysis of vertical baffles in traditional technology
		<b>M. LIPHADZI, Clinton O. AIGBAVBOA, W.D. THWALA:</b> Relationship between leadership styles and project success in the South African construction industry	<b>Christoph MERSCHBROCK, Tor TOLLNES, Christian NORDAHL-ROLFSEN:</b> Solution selection in digital construction design - A lazy user theory perspective	<b>V.P.S. Nihar NANYAM, Riddha BASU, Anil SAWHNEY, J.K PRASAD:</b> Multi-attributes evaluation methodology for emerging housing technologies

Tuesday - June 23, 2015				
9:30	10:15	Keynote Speech 3 <b>Igal SHOHEIT: Preparedness of Critical Infrastructures for Extreme Events – State-of-the-Art Review</b>		
10:15	10:45	Coffee Break		
10:45	11:45	<b>Creative Management</b> Chair: Constanta-Nicoleta BODEA	<b>Sustainable Construction</b> Chair:	<b>Creative Scheduling</b> Chair: Gunnar LUCKO
		<b>Žiga TURK, Igor BIZJAK, Robert KLINC:</b> Models and platforms for socially creative construction	<b>Alon URLAINIS, Igal M. SHOHEIT, Robert LEVY:</b> Probabilistic risk assessment of oil and gas infrastructures for seismic extreme events	<b>Borja GARCÍA DE SOTO, Bryan T. ADEY:</b> Investigation of the case-based reasoning retrieval process to estimate resources in construction projects
		<b>Ali TOURAN, Jucun LIU:</b> A method for estimating contingency based on project complexity	<b>Sima Michal ELKABETS, Igal M. SHOHEIT:</b> Resilience modeling (TRA) for critical infrastructures to withstand extreme events - Sensitivity analyses	<b>Attila PÉM, Levente MÁLYUSZ:</b> Model of arrangement of final material depots for concave construction sites
		<b>Christos V. BELLOS, Kleopatra PETROUSATOU, Leonidas ANTHOPOULOS:</b> Electronic building permission system: The case of Greece	<b>Miklós OROSZLÁNY, Katalin FAZEKAS, Balázs KEMES, Péter FEJÉRDY:</b> Construction of a bio-briquette building in Monor	<b>Sofia KAIAFA, Athanasios P. CHASSIAKOS:</b> A genetic algorithm for resource allocation in construction projects
		<b>Vachara PEANSUPAP, Rothmony LY:</b> Evaluating the impact level of design errors on structural and other building components in building construction projects in Cambodia	<b>Alexandra SARANTI, Theocharis TSOUTSOS, Maria MANDALAKI:</b> Sustainable energy planning. Design shading devices with integrated photovoltaic systems for residential housing units	<b>Edyta PLEBANKIEWICZ, Agnieszka LEŚNIAK, Patrycja KARCIŃSKA:</b> Analysis of methods for determining the construction works completion time in construction progress schedules
11:45	12:00	Company lecture by FAKRO		
12:00	13:15	Lunch		
13:15	14:00	Keynote Speech 4 <b>Miklós HAJDU: Review and Recent Advancements of Precedence Diagram Method</b>		
14:00	14:15	Disperse to sessions		
14:15	15:15	<b>Creative Management</b> Chair: Edyta PLEBANKIEWICZ	<b>Visualization, BIM</b> Chair: Magdy IBRAHIM	<b>Creative Scheduling</b> Chair: Adel FRANCIS
		<b>Gul POLAT, Baris KAPLAN, Befrin Neval BİNGÖL:</b> Subcontractor selection using genetic algorithms	<b>Quim MOYA, Oriol PONS:</b> User-friendly conceptual design of standardized glass complex shaped façades	<b>Yi SU, Gunnar LUCKO:</b> Comparison and renaissance of classic line-of-balance and linear schedule concepts for construction industry
		<b>Jan PÍCHA, Aleš TOMEK, Harry LÖWITT:</b> Application of EPC contracts in international power projects	<b>Michał JUSZCZYK, Miloslav VÝSKALA, Krzysztof ZIMA:</b> Prospects for the use of BIM in Poland and the Czech Republic – Preliminary research results	<b>Miklós HAJDU:</b> Point-to-point relations for modeling activity overlapping
		<b>Gul POLAT, Ekin ERAY:</b> An integrated approach using AHP-ER to supplier selection in railway projects	<b>Senthilkumar VENKATACHALAM, Chamila D. D. RAMANAYAKA:</b> Measuring BIM readiness with comprehension at the pre-maturity	<b>Orsolya BOKOR, Miklós HAJDU:</b> Investigation of critical activities in a network with point-to-point relations
		<b>Gorkem EKEN, Gozde BILGIN, Irem DIKMEN, M. Talat BIRGONUL:</b> A lessons learned database structure for construction companies		<b>J. Uma MAHESWARI, Purva MUJUMDAR, Anshul GOYAL, V. Paul C. CHARLESRAJ:</b> Resource-constrained project scheduling using Relationship Diagramming Method
15:15	15:45	Coffee Break		

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15:45	17:00	<p style="text-align: center;"><b>Creative Management</b> Chair: Edyta PLEBANKIEWICZ</p>	<p style="text-align: center;"><b>Creative Management</b> Chair: Gul POLAT</p>	<p style="text-align: center;"><b>Creative Scheduling</b> Chair: Gunnar LUCKO</p>
		<p><b>Xavier BRIOSO:</b> Teaching Lean Construction: Pontifical Catholic University of Peru Training Course in Lean Project &amp; Construction Management</p>	<p><b>Aynur KAZAZ, Serdar ULUBEYLI, Bayram ER, Volkan ARSLAN, Ahmet ARSLAN, Murat ATICI:</b> Fresh ready-mixed concrete waste in construction projects: A planning approach</p>	<p><b>Michał JUSZCZYK, Jarosław MALARA:</b> Probabilistic approach to duration assessment for selected construction works</p>
		<p><b>Chuan-Fang ONG, Po-Han CHEN, Shu-Chien HSU:</b> Internationalization and environmental strategies of multinational construction firms</p>	<p><b>AbdulLateef OLANREWAJU, Paul Junior ANAHVE:</b> Duties and responsibilities of quantity surveyors in the procurement of building services engineering</p>	<p><b>Miklos HAJDU:</b> The concept and mathematical model of continuous precedence relations</p>
		<p><b>Michał GŁUSZAK, Agnieszka LEŚNIAK:</b> Construction delays in clients opinion – Multivariate statistical analysis</p>	<p><b>Vachara PEANSUPAP, Lakhena CHEANG:</b> Identifying issues of change leading to cost conflicts: case study in Cambodia</p>	<p><b>Andrzej WIĘCKOWSKI:</b> Time reserves in the realizations of building</p>
		<p><b>Jide ADERIYE, Timothy Sunday OJAMBATI:</b> Development of firebrick materials for building construction</p>	<p><b>Amin ABBASZADEGAN, David GRAU:</b> Assessing the influence of automated data analytics on cost and schedule performance</p>	<p><b>Adel FRANCIS:</b> Graphical modelling classification and practical application for construction projects scheduling</p>
17:30	23:00	<b>Gala Dinner</b>		
<b>Wednesday - June 24, 2015</b>				
9:00	14:00	<b>Sightseeing + Lunch</b>		