

TECHNICAL PROGRAM

Modern Methods and Advances in Structural Engineering and Construction

The Sixth International Structural Engineering and Construction Conference (ISEC-6)
Zürich, Switzerland, 21-26 June, 2011

Tuesday, 21 June 2011

14:00 – 21:00	Registration <i>(The registration desk will be open during conference hours)</i>	Foyer, Floor E
19:00 – 21:00	Welcome Reception	Dozentenfoyer, Floor J

Exhibitor Schedule

Swiss Construction Companies and Taylor & Francis

	Name of company	Contact	Email	Phone	
14:00 – 18:00	Halter Unternehmungen, Zürich	Lukas Widmer Nik Grubenmann	l.widmer@halterunternehmungen.ch n.grubenmann@halterunternehmungen.ch	+41 44 434 24 07 +41 44 434 24 12	Entrance Hall, Floor E
	F. Preisig AG, Zürich	Michael Brentari	michael.brentari@preisigag.ch	+41 44 308 85 34	
	AMSTEIN + WALTHERT AG, Zürich	Sandra Schwarz	sandra.schwarz@amstein-walthert.ch	+41 44 305 91 11	
	Sika Schweiz AG, Zürich	Monika Zigerlig	pirrung.jacqueline@ch.sika.com		
	Emch+Berger AG, Bern	Barbara Jungo	barbara.jungo@emchberger.ch	+41 31 385 62 46	
	Taylor & Francis, UK	Victoria Bale	victoria.bale@informa.com	+44 207 017 62 97	

Wednesday, 22 June 2011

General Session I

06:30 – 17:00	Registration <i>(The registration desk will be open during conference hours)</i>	Foyer, Floor E
08:00 – 08:10	Conference Opening: Prof. Dr. Gerhard Girmscheid, Head of Institute of Construction and Infrastructure Management, ETH Zürich	F30
08:10 – 08:20	Welcoming Remarks: ISEC Society Prof. Dr. Amarjit Singh, President of the ISEC Society	
08:20 – 08:40	Welcoming Remarks: ETH Zürich Prof. Dr. Gerhard Schmitt, Senior Vice - President International Institutional Affairs, ETH Zürich	
08:40 – 09:00	Welcoming Remarks: Swiss Constructor Association (SBV) Werner Messmer, President of the Swiss Constructor Association	
09:00 – 09:20	Welcoming Remarks: Implenia Ltd. Anton Affentranger, Chairman of Implenia Ltd.	
09:20 – 09:40	Keynote : Prof. Dr. Gerhard Girmscheid, Head of Institute of Construction and Infrastructure Management, ETH Zürich "The 6 th Kondratieff Cycle: Chances for the Construction Sector"	
09:40 – 10:30	Break & Exhibitor Showcase	

Technical Session I -- Wednesday, 22 June 2011

	Session 1-1 Construction Project Delivery	Session 2-1 Facilities Management in the Built Environment	Session 3-1 Health and Safety in Construction	Session 4-1 Vibration and Soil Dynamics	Session 5-1 Masonry and Concrete Structures	Session 6-1 Sustainable and Cost Effective Housing
10:30 – 11:50	Room E 33.1	Room G 26.1	Room F 26.1	Room F 26.3	Room F 26.5	Room F 33.1
	Successes and Risks in Alternative Delivery <i>Max M. Shoura</i>	Application of Industrial Maintenance Methods on Building Maintenance <i>Markus Christen, Gerhard Girmscheid and Holger Wallbaum</i>	Using Auto-ID Systems for Life Cycle Data Management of Personal Protective Equipment to Improve Occupational Health and Safety <i>Manfred Helmus, Agnes Kelm, M. Mohammad Javad Khazaei and Lars Laussat</i>	Cyclic Shear Tests on Damping Properties of Soil-Bag Assemblies <i>Haruyuki Yamamoto and Shaohong Jin</i>	Frame-Elements Constitutive Law for Nonlinear Static and Dynamic Analyses of Masonry Buildings <i>N. Ahmad, H. Crowley, R. Pinho and Q. Ali</i>	Green Houses from Materials on Vegetable Base <i>Ingrid Senitkova and Monika Culakova</i>
	Speed Up of Project Delivery through Application of Effective Fast Tracking Strategies in the Engineering Phase <i>Fereshteh Khoramshahi and Janaka Y. Ruwanpura</i>	Pipe Inefficiency at a Water Utility <i>Stacy Adachi and Amarjit Singh</i>	An Investigation into the Effectiveness of the Construction Health and Safety Regulations in the United Kingdom: Designers Role <i>Ayman Y. Nassif and Richard N. Ward</i>	Study on Estimation of Direction Error of KIK-Net Surface Seismograph <i>Osamu Tsujihara</i>	Study on the Ultimate Strength of High Strength R/C Beam Subjected to Axial Tensile Force and Shear <i>Takahiro Tamura and Hiroki Ogawa</i>	Precast Stone-Blocks as Low Cost Load-Bearing Walls <i>Syed Faiz Ahmad</i>
	Understanding Characteristics of Projects that Make Cost Reimbursable Contracting an Appropriate Strategy <i>Cindy L. Menches, Juan Chen and Katherine Hull</i>	The Intangible Impacts of Sports Facilities Development: Case Study of the Bukit Jalil National Sports Complex in Malaysia <i>Maassoumeh Barghchi, Dasimah Bt Omar, Mohd Salleh Aman and Sina Kazemian</i>	4D Modeling and Construction Health and Safety Planning <i>A. L. C. Ciribini, A. Gottfried, M. L. Trani and L. Bergamini</i>	Decoupling Lateral Spread Response from Structural Inertial Loading: A Design Case Study <i>Thomas McCormack and Rick Thrall</i>	Nonlinear Modeling of Autoclaved Aerated Concrete Masonry Wall Strengthened Using Ferrocement Sandwich Structure <i>M. Abdel-Mooty, M. El-Kashef, E. Fahmy, M. Abou-Zeid and M. Haroun</i>	Carbon Neutral Soil-Cement Fly Ash Blocks for Sustainable and Cost Effective Housing <i>S. Narsing Rao and Ravande Kishore</i>
	Contract and Procurement Selection within a Sustainable Framework: Charting the Way Forward <i>Hector Martin, A. K. Petersen and Timothy Michael Lewis</i>	Impact of New European Facility Management Standards on Building Cost Structures <i>Markus Christen and Holger Wallbaum</i>	Is There a Correlation between Contractor's Health and Safety Performance and Their Profit Margin? <i>Shamil Naoum, Brian Hemmings and Daniel Fong</i>	Earthquake-Resistant Design of Earth Retaining Structures: An Overview <i>Ram Prasad Sharma</i>	Shear Behavior of Lightweight Sandwich Reinforced Concrete Slabs <i>Vanissorn Vimonsatit, Ade S. Wahyuni and Hamid Nikraz</i>	Ferro Cement Twin-Cantilever Shell Tiles as Low Cost Roof <i>Syed Faiz Ahmad</i>
				Experimental Research of Pile-Cap Deepening with the Vibration of Pile Foundation <i>A.O. Kolesnikov and V.N. Popov</i>		
12:00 – 13:30	Lunch					Mensa Polyterrasse



Technical Session II -- Wednesday, 22 June 2011

	Session 1-2 Legal Affairs and Dispute Resolution	Session 2-2 Risk Management in Construction	Session 3-2 Enhancing Health and Safety at Work	Session 4-2 Concrete Structures (1)	Session 5-2 Mechanics of Materials	Session 6-2 Behavior of Concrete Materials
13:30 – 14:50	Room E 33.1	Room G 26.1	Room F 26.1	Room F 26.3	Room F 26.5	Room F 33.1
	Dispute Resolution: Reasons for Construction Disputes <i>Justin Sweet</i>	Identification of Parameters for a Quantitative Risk Allocation Model with Systematic Review <i>Jennifer Firmenich</i>	Occupational Health and Safety in the Construction Industry: A Review of Work Practices <i>Helen Bethell and Vanissorn Vimonsatit</i>	Development of Tolerance Limits for Imperfections in Construction of Reinforced Concrete Buildings <i>Qaiser Uz Zaman Khan, Qaisar Abbas and Fiaz Tahir</i>	Yield Capacity Curve of a Steel Channel Section <i>Ramon V. Jarquio</i>	New Method in Characterizing Tensile Softening Procedure in Concrete <i>Hamed Khezzzadeh and Massood Mofid</i>
	Relational Contracting and Its Efficacy of Project Outcomes in the Australian Construction Industry <i>Melissa Chan, Vaughan Coffey and Bambang Trigonarsyah</i>	Utilization of "Construction Manager @ Risk" Project Delivery Approach for an Airport Terminal Expansion Project <i>Frank Lobedan</i>	A Research Framework for Assessing the Effects of Heat Stress on Construction Workers <i>A. P. C. Chan, F. K. W. Wong, M. C. H. Yam, D. M. W. Chan, E. C. M. Mok, G. Y. K. Shea, Y. Guan, J. W. Y. Chung, H. Biggs and D. Dingsdag</i>	Bond Studies of Hooked Bars Confined with Steel Fibers in Normal Strength Concrete <i>Bilal S. Hamad and Elias Y. Abou Haidar</i>	Study On Relationship between Superposed Strength and Yield Strength of the Square CFT Columns <i>Q. S. Liu, M. Kido and K. Tsuda</i>	Two-Layer Beams from Normal and Fibered High Strength Concrete <i>I. Iskhakov and Y. Ribakov</i>
	Legal and Contractual Conditions: Implications on Constructors' Solvency <i>Thanuja Ramachandra and James Olabode Rotimi</i>	Coping with Incompleteness: An Approach Using Time and Production Related Compensation <i>M. Werkl and D. Heck</i>	Improved Crew Productivity, Communication, Safety and Quality via "Virtual Supervision" <i>Lahiru P. Silva and Janaka Y. Ruwanpura</i>	Comparison Study for the Structural Behaviour of Concrete Office and Residential Buildings in Kuwait <i>Tarek A. Awida</i>	Alternate Method of Shear Lug Analysis <i>P. K. Khan</i>	Behavior of Reinforced Concrete Columns Made with Ultra-High-Strength Fiber Reinforced Self-Compacted Concrete (UHS-FR-SCC) <i>Amr S. El-Dieb and Ehab M. El-Said</i>
	Uncertainties of Construction Negotiation: A Preliminary Study <i>Tak Wing Yiu, Pui Ting Chow, Wing Yi Leung and S. O. Cheung</i>	A Risk-Assessment and Risk-Pricing Method for Hong Kong Housing Authority Construction Contracts <i>Lawrence K. W. Chung</i>		Tension Softening Effects on the Buckling Behavior of Slender Concrete Wall Panels <i>Gary P. Robinson, Alessandro Palmeri and Simon A. Austin</i>	Improvement of Ductility of H-Shaped Member Covered with Steel Tube <i>Yasunori Yamashita and Katashi Fujii</i>	Influence of Glass Fiber Wrapping on Strength Properties of Concrete <i>Ravande Kishore, V. Bhikshma and P.V.S.S.V.P. Raju</i>
		Effective Risk Management from the Perspective of Real Estate Developers: The Case of Beirut Central District <i>Mostapha Fattal, Issam Srour and M. Asem Abdul-Malak</i>		Model Test on a Kind of Assembly Steel Frame with Mortise and Tenon <i>Shujin Duan, Wanqiu Suo, Yan Yu, and Chunyan Ma</i>		Measurement of Attenuation for Photons and Removal Cross-Section for Neutrons in LMC <i>B. K. Prasad, Uttamasha Gupta, and U. B. Choubey</i>
14:50 – 15:30	Break & Exhibitor Showcase					Entrance Hall, Floor E

Technical Session III -- Wednesday, 22 June 2011

	Session 1-3 Contracting and Procurement	Session 2-3 Risk and Challenges in International Projects	Session 3-3 Towards Integrative Approaches in Construction	Session 4-3 Concrete Structures (2)	Session 5-3 Prestressed Concrete Structures	Session 6-3 Building and Construction Materials
15:30 – 16:50	Room E 33.1	Room G 26.1	Room F 26.1	Room F 26.3	Room F 26.5	Room F 33.1
	Contracting to Appropriately Allocate Risk <i>Awad S. Hanna and Justin R. Swanson</i>	A Preliminary Study on a Country Risk Analysis for International Construction <i>Kang-Wook Lee, Wooyong Jung and Seung-Heon Han</i>	A Theoretical Framework for Prediction of the Impact of Design Changes on Engineering Effectiveness in Construction Projects <i>Mahsa Taghi Zadeh and Janaka Y. Ruwanpura</i>	An Optimized Nonlinear Finite Element Design for Reinforced Concrete Deep Beams <i>S. M. Shahidul Islam and Amar Khennane</i>	Study on Loading Behaviors of Assembled PC Box Girder Bridge Affected by Pavement Thickness <i>S.B. Zhao, R. He and W. He</i>	The Influence of Lime Water as Mixing Water on the Compressive Strength Development of High Volume Ultra Fine Fly Ash Mortar <i>Mochamad Solikin, Sujeva Setunge and Indubhushan Patnaikuni</i>
	A Research Framework for Risk Management of PPP Projects in China <i>Albert P.C. Chan and Ye Lin Xu</i>	Is It True that High Risk Yields High Returns in International Construction Projects? <i>Wooyong Jung, Seung-Heon Han, Yong-Woo Kim and Jaechul Choi</i>	Industrialization of the Swiss Construction Market: A Cooperative Approach <i>Thomas Rinas and Gerhard Girmscheid</i>	A New Elastic-Wave-Based NDT System for Imaging Defects Inside Concrete Structures <i>Jian-Hua Tong</i>	Progressive Collapse-Resisting Capacity of RC Frames with Prestressing Tendons <i>Joonho Lee, Wooseung Shin and Jinkoo Kim</i>	Influence of Sorption Moistening in Research of Moisture Deformations of Building Materials <i>Ruta Miniotaite</i>
	A Conceptual Framework for Ethical Decision Making in Project Procurement <i>Aliza A. Hassim, S. Kajewski and B. Trigunarsyah</i>	Case Studies in Risk Ranking for International Transportation Projects <i>Eduardo Gamez and Ali Touran</i>	Factors Affecting the Integration of Small and Medium Size Construction Firms to Globalization <i>Suat Gunhan</i>	Structural Behavior of FRP-Reinforced Concrete Beams <i>Y. X. Zhang and Xiaoshan Lin</i>	Short and Long-Term Performance of Partially Prestressed Concrete Slabs <i>Toshihiko Yamamoto</i>	Asbestos is Our Responsibility in Design and Construction <i>Jorge A. Frases</i>
	Appropriate Contracting Strategy for Fast-Track Projects <i>Mohammad Moazzami, Reza Dehghan and Janaka Y. Ruwanpura</i>	Challenges Facing Transportation Sector in Jordan <i>Khalid A. Ghuzlan</i>	Antecedents of Trust in Supervisor-Subordinate Dyad in the Construction Industry <i>S. O. Cheung, P. T. Chow and C. S. Or</i>	Behavior and Strength of Lightweight Sandwich Reinforced Concrete Beams <i>Vanissorn Vimsatit, Ade Wahyuni and Hamid Nikraz</i>	Tensile-Anchorage Bearing Modes Design of Annular High-Performance Prestressed Concrete Structures <i>S.B. Zhao, X. K. Li and J. H. Chen</i>	Selected Mechanical Properties of Mortar Used for Masonry Incorporating Artificial Pozzolana <i>Mark Bediako, A. A. Adjaottor and S. K. Y. Gawu</i>
				Bond Studies of Hooked Bars Confined with Steel Fibers in High Strength Concrete <i>Bilal S. Hamad and Elias Y. Abou Haidar</i>		Development of Shrinkage Resistant Cement-Based Materials Using Fibers <i>Pedram Hamedanimojarrad, Georgius Adam, Abhi S. Ray, Kirk Vessalas and Paul S. Thomas</i>



Modern Methods and Advances in Structural Engineering and Construction

The Sixth International Structural Engineering and Construction Conference (ISEC-6)
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Thursday, 23 June 2011


General Session II

06:30 – 20:00	Registration (<i>The registration table will be open during conference hours</i>)	F30
08:30 – 09:15	Keynote: "The Future of Automobile Energy: A Resource and Sustainability Perspective" Prof. Dr. Amarjit Singh, PhD, Department of Civil and Environmental Engineering, University of Hawaii at Manoa	
09:15 – 10:30	Break & Exhibitor Showcase	Entrance Hall, Floor E

Swiss Building Industry Workshop -- Thursday, 23 June 2011

Swiss Championship in Tunneling		F30
13:30 – 14:00	Dr. Stefan Moser, Basler & Hofmann AG, "Tunnel Construction in Dense Inner-City Areas"	
14:00 – 14:30	Dr. Martin Herrenknecht, Herrenknecht AG, "The Latest Developments in the Area of Tunnel Boring Machines"	
14:30 – 15:00	Dr. Renzo Simoni, AlpTransit Gotthard AG, "Alptransit – 57 Km Tunneling Through High Mountains"	
15:00 – 15:30	Break & Exhibitor Showcase	
The Swiss Approach to Sustainability		
15:30 – 16:00	Rudolf Trachsel, Bob Gysin + Partner AG, "Innovative BGP Projects in the Area of Sustainability"	
16:00 – 16:30	Ronald Schlegel, Priora Facility Management AG, "Life-Cycle Contracting - Innovative Business Model in the Swiss Real Estate Market"	
16:30 – 17:00	Roland Stulz, Novatlantis, "Swiss Initiative for Sustainable Agglomerations"	

Technical Session IV -- Thursday, 23 June 2011

	Session 1-4 Project and Cost Control	Session 2-4 Managing Risks in Difficult Projects	Session 3-4 Architectural Engineering and Structures	Session 4-4 Structural Systems	Session 5-4 Seismic Design and Vibration	Session 6-4 Asphalt Concrete
10:30 – 11:50	Room E 33.1	Room G 26.1	Room F 26.1	Room F 26.3	Room F 26.5	Room F 33.1
	Contingency vs. Percent Completion in Infrastructure Projects <i>Ali Touran and Ye Zhang</i>	Geological Risk Assessment in Underground Construction <i>Wai Lun Sham, Louis Ngai Yuan Wong, Wen Qi Bai and Robert Lee Kong Tiong</i>	Structural Design and Optimization of the Beijing National Aquatic Center <i>M. A. Arkinstall and T. G. A. Carfrae</i>	Retrofit of Structures to Prevent Progressive Collapse <i>Hana Lee, Chanh-Trung Huynh and Jinkoo Kim</i>	Evaluation of the Seismic Design Factors of RC Multi-Story Buildings <i>Aman M. Mwafy and Usama Ebead</i>	Effect of Oil Shale Ash on Dynamic Creep of Asphalt Concrete Mixtures <i>Taisir S. Khedaywi and Arabi N. Al-Qadi</i>
	Optimum Activity Overlapping Using Genetic Algorithms <i>Reza Dehghan, Kamran Hazini and Janaka Y. Ruwanpura</i>	Automated Detection of Exposed Reinforcement in Post-Earthquake Safety and Structural Evaluations <i>Stephanie German, Ioannis Brilakis and Reginald Desroches</i>	Deploying Interoperable Bim and Online Interactive 3D in Integrated Design <i>K. E. Hedges and D. R. Beach</i>	Structural Systems for Tilted Towers <i>Kyoung Sun Moon</i>	Application of Tuned Liquid Damper for Controlling Structural Vibration Due to Earthquake Excitations <i>Bharadwaj Nanda and Kishore Chandra Biswal</i>	Evaluation of Construction Limestone Aggregate Sourced in the Northern Part of Jordan Using Superpave Tests <i>Ghazi Al-Khateeb, Turki Obaidat, and Taisir S. Khedaywi</i>
	Comparison of Residential Roofing Alternatives Using Life Cycle Cost Assessment <i>Farrukh Arif, Mehmet Emre Bayraktar and Stuart M. Grant</i>	LIDAR Study of the 2010 Maule Chile Earthquake <i>Michael J. Olsen, Sara Piaskowy, Solomon Yim, Luis Burgos and Shawn Butcher</i>	Design Oriented Generation of Complex Structures <i>Clemens Preisinger, Arne Hofmann and Klaus Bollinger</i>	Structural Damage Detection Using Substructure Identification: Experimental Verification Study <i>C. G. Koh and Thanh N. Trinh</i>	Finding Optimal Locations of Dampers in Active Controlled Structures Subjected to Earthquakes <i>Y. Ribakov and G. Agranovich</i>	Mechanical Characteristics of Asphalt Concrete with Steel Slag Aggregates <i>Wei Li, Liye Wang, Yan Liang and Haruyuki Yamamoto</i>
	Interdisciplinary Research Project: Principles of Work Scheduling <i>Dieter Schlagbauer, Detlef Heck and Peter Hofmann</i>	Integrated Risk Management in Infrastructure Projects <i>Konrad Spang</i>	Plastic Materials in Façade Applications: New Chances for Combination of Design and Construction in Temporary Architecture <i>Thomas Ries</i>	Structural Systems for Twisted Towers <i>Kyoung Sun Moon</i>	Influence of Different Seismic Retrofit Methods on Fragility Curves of an Existing RC Frame <i>A. R. Khaloo and M. Tonekaboni Pour</i>	Study on Evaluating Method of Viscoelastic Properties of Cold Asphalt Mixes <i>Masa-Aki Okamoto, Isao Ujike and Shin-Ichiro Okazaki</i>
Cost and Experience Based Method for Project Acceleration <i>Osama Moselhi and Adel Alshibani</i>	Preliminary Findings: Counterfeiting in the International Construction Industry <i>R. Edward Minchin Jr., Russel Dingman and Russell D. Walters</i>	Structural Transparency: New Materials for New Applications <i>Christian Eckhardt and Jochen Stahl</i>	Impact of Building Plan Geometry on the Wind Response of Concrete Tall Buildings <i>Tarek A. Awida</i>	Analysis on the Seismic Performance of the Bridge for the Jin-Bin Mass Transit after Pier-Underpinning <i>Bu Jian-Qing and Sun Ning</i>	The Effects of Varying Aggregate Gradation on Voids in Mineral Aggregates in Hot Mix Asphalt Paving Mixtures <i>M. A. Kamal, Tahir Jamil and D. A. B. Hughes</i>	
12:00 – 13:30	Lunch					Mensa Polyterrasse

Technical Session V -- Thursday, 23 June 2011

	Session 1-5 Enhancing Design Efficiency and Performance	Session 2-5 Construction Across the Globe	Session 3-5 Structural Analysis	Session 4-5 Building Structures	Session 5-5 Seismic Performance and Response	Session 6-5 Technical Committee Meeting
13:30 – 14:50	Room E 33.1	Room G 26.1	Room F 26.1	Room F 26.3	Room F 26.5	Room F 33.1
	Qualifying and Quantifying the Exchange of Information between Pairs of Design Activities <i>Maysaa M. Ramadan, Issam M. Srour, M. Asem Abdul-Malak and Ali A. Yassine</i>	Labor Intensive Construction Work in India <i>Mahesh Vuppala, V.R.C. Kishore Bolla and Enno "Ed" Koehn</i>	Flexural Punching Shear Capacities of Steel Strengthened Slabs <i>Usama Ebead and Huda Saeed</i>	Prediction of Time-Dependent Structural Behavior with Recurrent Neural Networks <i>Wolfgang Graf, Steffen Freitag, Jan-Uwe Sickert and Michael Kaliske</i>	Seismic Performance of RC Structure Retrofitted by RC Walls <i>Tomiya Takatani</i>	
	Expected Useful Life of Building Structures of Post-1992 Hong Kong Housing Authority Rental Domestic Blocks <i>Joseph Mak</i>	Differences between Client and D&B Contractors' Perceptual Emphasis towards Success Criteria for Public Hospital Construction Projects <i>Hayroman -Ahmad, Abdul Rashid-Abdul Aziz, Mastura-Jaafar and Anuar-Alias</i>	Testing FRP Confined Columns Under Eccentric Loading <i>Muhammad N. S. Hadi and Veysel Yazici</i>	Semi-Active Vibration Control of the Wind-Excited Tall Building Using Fuzzy Supervisory Control Policy <i>Hyun-Su Kim</i>	Efficiency of Seismic Damping Devices for Braced Structures <i>Mario Uros, Marta Savor and Josip Atalic</i>	
	Empirical Exercise in Structural Design: Force, Form, Material and Connection <i>Christopher D. Trumble</i>	Ranking the Perceived Cause and Risk Levels for Construction Delays in Trinidad <i>Hector Martin, Timothy Michael Lewis and Javed Hosein</i>	An Analytical Study of Steel Flat Double Layer Grid Spatial Structures <i>Mehdi Setareh and Li Ma</i>	A Study on Floor Micro-Vibration in High Technology Factories <i>Lee Chien-Liang, Su Kai-Leung and Wang Yen-Po</i>	Methodology for the Verification of Seismic Design Factors of Shear Wall Buildings <i>Aman M. Mwafy</i>	
	Monitoring Construction Site Buildings with Concrete Structures <i>Arie Gottfried, Giuseppe M. Di Giuda, Valentina Villa and Paolo Piantanida</i>	ISO 14000 Environmental Management System and General Look on Turkish Construction Firms <i>Ahmet Murat Turk</i>	Form Finding of the SCST Structures by Means of Cable Tensioning <i>Jeung-Hwan Doh, Jin-Woo Kim and Moon-Ho Park</i>	Hygric and Thermal Properties of Materials Involved in the Envelopes of Contemporary Buildings <i>Vaclav Koci, Milos Jerman, and Robert Cerny</i>	Effect of Collision on Seismic Response of Bridge <i>Eiki Yamaguchi and Keita Yamada</i>	
				Determination of Vapour Permeability and Water Sorption in the Double-Layer Coating-Base System on Building Walls <i>Ruta Miniotaite</i>	Displacement-Based Earthquake Loss Assessment of Adobe Buildings of Pakistan <i>N. Ahmad, H. Crowley, R. Pinho and Q. Ali</i>	
14:50 – 15:30	Break & Exhibitor Showcase					Entrance Hall, Floor E

Technical Session VI -- Thursday, 23 June 2011

15:30 – 16:50	Session 1-6 Efficiency and Productivity Advancement in Construction Room E 33.1	Session 2-6 Sustainability in Architecture, Engineering, and Construction (AEC) Room G 26.1	Session 3-6 Structural and Coastal Engineering Room F 26.1	Session 4-6 Composite Structures Room F 26.3	Session 5-6 Shell Structures Room F 26.5	Session 6-6 Pavement Management and Systems Room F 33.1
	User Interfaces of Intelligent Program Management Information System for Mega-Projects <i>C. T. Hyun, Run-Zhi Jin, M. J. Son, J. H. Kim</i>	Construction Site Design: A Sustainable Approach <i>M. L. Trani and Benedetta Bossi</i>	Engineered Reefs for Shoreline and Harbor Protection <i>Michael J. H. Foley and Amarjit Singh</i>	Numerical Modelling of FRP-Reinforced Concrete Beams at Elevated Temperatures <i>Xiaoshan Lin and Y. X. Zhang</i>	Shape Optimization of Geometrically Nonlinear Shell Structures <i>M. Kegl, B. Brank, B. Harl and D. Dinevski</i>	An Example of the Evaluation of the Total Benefit of Road Preservation Intervention Strategies <i>Zanyar Mirzaei, Bryan T. Adey and Konstantinos Tsafatinos</i>
	Leveraging R&D to Advance Digital Modelling Practice in Australian Construction <i>Keith Hampson and Judy A. Kraatz</i>	Redefining the Design Process to Enhance Sustainable Steel Buildings <i>Dimitra Tzourmakliotou</i>	Investigating the Effect of Pounding and Impact on Base Isolated Adjacent Buildings Due to Earthquakes <i>Muhammad N. S. Hadi and Mehmet E. Uz</i>	The Effect of Transverse Steel and FRP Jacket Confinement on Mechanical Properties of Concrete Cylinders: An Experimental Study <i>A. R. Khaloo, Yousef Javid and Horr Khosravi</i>	Dynamic Response Characteristics of Steel Tanks Under Wind Gust Loading <i>S. Borgersen and S. Yazdani</i>	Process-Oriented and Effect-Oriented Management of Operational Street Maintenance <i>L. Koller and Gerhard Girmscheid</i>
	Process-Oriented Analysis of the Interactions among Formwork Related Teams with a Modified Cyclone-Model <i>Max Kersting and Gerhard Girmscheid</i>	Potentials and Barriers of Establishing a Carbon Labelling System for the Construction Industry <i>S. Thomas Ng, James M. W. Wong and Kate Y. Chen</i>	Bonded/Mechanically Fastened FRP for RC Beam Strengthening <i>Usama Ebead, Aman Mwafy and Huda Saeed</i>	Strengthening Steel Structures Using Composites: A New Approach for Inhibiting Local Buckling <i>A. M. Okeil, Y. Bingol, M. R. Ferdous, G. Broussard and M. Chorkey</i>	Numerical Evaluation of the Effects of Hoop Edge Beams Attached to the Cylindrical R/C Shell <i>Takashi Hara</i>	Automated Detection of Potholes in Visual Data <i>Christian Koch and Ioannis Brilakis</i>
	Is There a Relationship Between the Lean Concept and Productivity Rate of Construction Projects? <i>Shamil Naoum, Tim Whitworth and Daniel Fong</i>	Sustainable Buildings in Brazil: Guidelines for Architectural Projects <i>A. J. O. Sá and A. G. Gumieri</i>	Structural Behavior of Double-Layer Braced Barrel Vaults <i>Mehdi Setareh and Li Ma</i>	Nonlinear Numerical Modeling of FRP-Strengthened Concrete Slabs <i>Y. X. Zhang and Xiaodan Teng</i>	Local Stability Analysis of Thin-Shell Structures by Semi-Analytic Finite Strip Method <i>Xinli Bai, Wenliang Ma and Zeyu Wu</i>	Pop-Out Mechanism of Concrete Pavement with Embedded Heating Pipes <i>Isamu Yoshitake, Yoshinao Okabe, Narifumi Yasumura and Yoshito Horino</i>

19:00 – 20:00

Reception

Dozentenfoyer, Floor J

20:00 – 22:00

Dinner Banquet

Dozentenfoyer, Floor J

Modern Methods and Advances in Structural Engineering and Construction

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Friday, 24 June 2011

08:00 – 18:00

Registration (*The registration desk will be open during conference hours*)

F30

Technical Session VII -- Friday, 24 June 2011

	Session 1-7 Construction Systems and Processes Room E 33.1	Session 2-7 Organizational Behavior Issues Room G 26.1	Session 3-7 Geotechnical Engineering (1) Room F 26.1	Session 4-7 Steel Structures (1) Room F 26.3	Session 5-7 Tunnels, Aqueducts, and Other Structures Room F 26.5	Session 6-7 Engineering Performance of Concrete Room F 33.1
08:30 – 09:50	The Design Model for Inclined Screwnails in Timber-Concrete Composite Beam Interconnection <i>Saulius Kavaliauskas and Audronis Kazimieras Kvedaras</i>	Dynamic Model of Organizational Learning: De-escalation of Learning Behaviour <i>P. T. Chow, P. S. P. Wong and S. O. Cheung</i>	Identification of Engineering Bedrock Using H/V Spectral Ratio of Microtremors <i>Terumasa Okamoto and Osamu Tsujihara</i>	Behavior of Reduced Link Sections in Eccentrically Braced Frames (EBFs) <i>Mohammadali Faridalam</i>	Geotechnical Investigation of Metro Tunnel Seismic Consideration: A Case Study <i>Vahed Ghiasi, Husaini Omar, Bugang K. Huat, Samad Ghiasi, Sina Kazemian, Zeinab Bakhshipour, Seyed Ghavamoddin Hoseini and Moharam Baharvand</i>	Experimental Study on High Strength High Volume Fly Ash Concrete <i>V. Bhikshma, Ravande Kishore and B.V.N.D. Prasanna Kumari</i>
	The Construction of Vertical Double-layer Space Grids for Super Tall Building (Part-1) <i>Hendry Yahya Sutjiadi and Andrew W. Charleson</i>	Bridging the Gap: Improving the Professional Development of Post Graduate Engineers through the Educational System <i>L. A. Ellis, A. K. Petersen and S. Nicholls</i>	Bearing Pressure for Cohesion-Less Sand or Rock <i>Ramon V. Jarquio</i>	On the Elastic Local Buckling of the Webs of Steel Cellular Columns <i>Khaled M. El-Sawy and Amr M. I. Sweedan</i>	Design Analysis of Superposed Aqueduct with Longitudinal PPCBS and Segregated Cast-In-SITU RCF <i>S. B. Zhao, S. W. Pei and X. J. Liang</i>	Effect of Silica Fume on Engineering Properties of Fiber Reinforced Concrete <i>Ashish Kumar Dash, Mahabir Panda and Kishore Chandra Biswal</i>
	Construction of the Chelsea Street Vertical Lift Drawbridge Utilizing Modern Construction Techniques <i>John M. Pecora III, Franklin M. Grynkewicz and Jerry M. Pfuntner</i>	Project Participants' Roles in Achieving Facility Success <i>Marnam Nasser, M. Asem Abdul-Malak and Issam M. Srour</i>	Behavior of Reinforced Lifelines Using Shallow Soil Improvement <i>He Huang, Haruyuki Yamamoto and Lingyu Meng</i>	New Design Formulas of H-Shaped Steel Beam-Columns Subjected to Axial Compressive Force and Bending Moment <i>M. Kobayashi, K. Tsuda, M. Kido and A. Kawano</i>	Effects of Surface Geometry on Water Permeation through Cracked Concrete <i>Shinichiro Okazaki, Isao Ujike and Hiroki Fujiwara</i>	Corrosion Performance of Concrete Containing Rice Husk-Bark Ash under 5-Year Exposure in Marine Site <i>W. Chalee, P. Suwanmaneechot and C. Jaturapitakkul</i>
	The Construction of Vertical Double-layer Space Grids for Super Tall Building (Part-2) <i>Hendry Yahya Sutjiadi and Andrew W. Charleson</i>	Synthesis of Viable Negotiated Alternatives for Contractors' Workers' Compensation <i>R. Edward Minchin Jr., John W. Mogge and Stuart A. Christmas</i>	Integrated RFID and Sensor Technologies for Effective Landslide Monitoring and Early Warning <i>S. Hosseyni, E. N. Bromhead, J. Majrouhi Sardroud, M. Limbachiya and M. Riazi</i>	Optimized Non-Linear Solution for Bending Wide Flange Steel Beams about their Strong Axis <i>Antoine N. Gergess and Rajan Sen</i>	Flexural Response of Damaged Steel Beams Strengthened with CFRP Sheets <i>Amer Hmidan, Yail J. Kim and Siamak Yazdani</i>	Experimental Investigations on Strength Characteristics of Pond Ash Concrete <i>V. Bhikshma, Ravande Kishore and D. Champla Naik</i>
10:00 – 10:30	Break & Exhibitor Showcase					Entrance Hall, Floor E

Technical Session VIII -- Friday, 24 June 2011

	Session 1-8 Innovations in Construction Practice	Session 2-8 Effect of Culture on Performance	Session 3-8 Geotechnical Engineering (2)	Session 4-8 Steel Structures (2)	Session 5-8 Environmental and Thermal Conditions in Buildings	Session 6-8 Innovative Concrete Materials and Methods
10:30 – 11:50	Room E 33.1	Room G 26.1	Room F 26.1	Room F 26.3	Room F 26.5	Room F 33.1
	Construction Smart Forms: An Application of Information Technology to Reduce Waste by Increasing Interoperability <i>Babak J. Fard and Ali Touran</i>	Development of Construction Organizational Culture Framework <i>S. O. Cheung, H. Y. Pang and H. Y. Chan</i>	Slope-Rockfall Tests on Wall Embankments Reinforced with Geosynthetics <i>K. Maegawa, T. Tajima, T. Yokota and M. Tohda</i>	Assessment of the Moment Carrying Capacity of Girders with Web Openings <i>Amr M. I. Sweedan</i>	Improving Design and Operation of a Buddhist Temple <i>T. Siriaksorn, T. Tangpraprutgul, and Enno "Ed" Koehn</i>	Comparative Study on the Rheological and Durability Characteristics of Conventional and Glass-Enriched Self Compacting Concrete <i>M. Blankson, S. Erdem, A. R. Dawson and N.H. Thom</i>
	Using Recycled Materials in Residential Construction Systems <i>Naoto Mine, Soichiro Kuroki, Takashi Kunugi and Hiroki Tsutsumi</i>	Profiles of Organisational Culture in Indonesian Construction Companies <i>Vaughan Coffey, Debby Willar and Bambang Trigunarsyah</i>	An Overview of Geology Incidents of Cavity, Fractures and Sinkholes in the Karst Terrain Using of Geophysical Methods <i>Zeinab Bakhshipour, Majid Mirzaie, Vahed Ghiasi and Hossein Moayedi</i>	Interval Long-Term Analysis of Concrete-Filled Steel Tubular Arches <i>Yong-Lin Pi, Mark Andrew Bradford and Weilian Qu</i>	Modelling the Sustainable Performance of Building Envelope for Sustainable Energy Efficient Design <i>Joseph Iwaro and Abraham Mwasha</i>	Investigation of ASR in Mass Concrete Structures: A Case Study <i>Suvimol Sujjavanich, Prasert Suwanvitaya and David Rothstein</i>
	Model of Economic Justification of Substitutional Construction <i>Sašo Kovačec, Igor Psunder and Marko Sorsak</i>	Management of Organizational Capabilities in Technology Development: International Survey on Fire Prevention Technologies <i>Hande Ünlü and Tomonari Yashiro</i>	Geotechnical Considerations on the Design of Piled Rafts on Rock <i>Hisham T. Eid</i>	Study on the Crack Width of Double Steel and Concrete Composite Continuous Beam <i>Shujin Duan, Yan Zhang, Gang Zheng and Runming Niu</i>	Indoor Nitrogen Oxides Occurrence, Modeling and Prediction <i>Silvia Vilcekova and Ingrid Senitkova</i>	Using Electrically Conductive Concrete (ECC) for Grounding Applications <i>A.S. El-Dieb, M. A. El-Gharib, M. A. H. Abdel-Rahman and E. A. Nasr</i>
	A Methodology for Evaluating the Significant Potential Contract Risks at the Tender Evaluation Stage <i>D. E. Samuel and A. K. Petersen</i>	An E-Hub Architecture for the Construction Industry <i>Nikos Zamparas and Athanasios P. Chassiakos</i>	The Effect of Sodium Silicate on Cement-Sodium Silicate System Grout <i>Sina Kazemian, Bujang B. K. Huat, Thamer A. Mohammed and Maassoumeh Barghchi</i>	Detection of Through-Thickness Cracks in Steel Components by Means of Ultrasound Stimulated Thermography <i>Robin Plum and Thomas Ummenhofer</i>	Effect of Environmental Conditions on Service Life of Thermal Insulation Systems <i>Jan Koci, Jiri Madera, Xinying Lu, and Robert Cerny</i>	Use of Sensors for Condition Monitoring of Refurbished Chloride-Induced RCC Structure <i>Ramesh R. Reddy and M. Raja Shaker</i>
	Technical Innovation in Consolidation of Decorated Ceiling <i>Renato G. Lagana</i>			Analytical Study on Buckling of the Vertical Frame of Scaffolds Subjected to Eccentric Load <i>Hiroki Takahashi, Katsutoshi Ohdo, and Seiji Takanashi</i>		Environmental Savings from the Use of Vegetable Fibres as Concrete Reinforcement <i>E. B. B Zea Escamilla. and H. Wallbaum</i>
12:00 – 13:30	Lunch					Mensa Polyterrasse



Technical Tours – Friday, 24 June 2011

	Technical Tour 1	Technical Tour 2	Technical Tour 3
14:00 – 17:00	Weinberg-Station-Railway Tunnel, Zürich	Rheinbrücke, Basel (Bridge on the Rhein)	Fa. Herrenknecht Tunnel construction machinery of the company Herrenknecht
	Max. Participant: 20	Max. Participant: 45	Max. Participant: 50
17:00 – 17:30	Closing Ceremony		F30

F 33.5 – Info & Business Center

G 26.3 – Store Room

Exhibitor Schedule

Swiss Construction Companies and Taylor & Francis

Wednesday, June 22 to Friday, June 24 2011

08:00 – 18:00	Name of company	Contact	Email	Phone	Entrance Hall, Floor E
	Halter Unternehmungen, Zürich	Lukas Widmer Nik Grubenmann	l.widmer@halterunternehmungen.ch n.grubenmann@halterunternehmungen.ch	+41 44 434 24 07 +41 44 434 24 12	
F. Preisig AG, Zürich	Michael Brentari	michael.brentari@preisigag.ch	+41 44 308 85 34		
AMSTEIN + WALTHERT AG, Zürich	Sandra Schwarz	sandra.schwarz@amstein-walthert.ch	+41 44 305 91 11		
Sika Schweiz AG, Zürich	Monika Zigerlig	pirrung.jacqueline@ch.sika.com			
Emch+Berger AG, Bern	Barbara Jungo	barbara.jungo@emchberger.ch	+41 31 385 62 46		
Taylor & Francis, UK	Victoria Bale	victoria.bale@informa.com	+44 207 017 62 97		