

## Modern Methods and Advances in Structural Engineering and Construction The Seventh International Structural Engineering and Construction Conference (ISEC-7) Honolulu, Hawaii - June 18 - 23, 2013

TSEI:	Tuesday, June 18, 2013	
15:00 - 18:00	Registration	Campus Center Ballroom
17:00 - 19:00	Icebreaker & Welcome Reception - Drinks, Pupus (Appetizers), and Light Hawaiian Music	Campus Center Ballroom

07:00 - 17:00	Registration (The registration desk will be open during conference hours)	Campus Center Ballroo
08:00 - 08:40	Conference Briefings/Opening Session	
	Welcome and Introductions	
	Amarjit Singh, Conference Chair	
	Traditional Prayer and Dance	
	Tihati Productions Ltd.	
	Welcome to College of Engineering	
	Peter Crouch, Dean - College of Engineering , UH-Manoa	
	Welcome to University of Hawaii at Manoa	Campus Center Ballro
	Tom Apple, Chancellor - University of Hawaii at Manoa	
	Welcoming Remarks	
	Frank Yazdani, ISEC Society	
	Announcements	
	Amarjit Singh, Conference Chair	
08:40 - 09:15	Keynote: Stojan Kravanja, University of Maribor, Slovenia	
	"Cost Optimization of Structures in Civil Engineering"	

TSEC.	Technical Se	ssion I - Wednesday	, June 19, 2013; 0	9:45 - 11:45	
Session Chair: Takashi Hara	Session Chair: Jimmy Kim	Session Chair: Vanissorn Vimonsatit	Session Chair: Paul Stephenson	Session Chair: Edward Minchin	Session Chair: Cindy Menches
CC307	CC308	CC309	CC310	CC203E	CC Exec. Dining Room
I-1: Seismic & Structures	I-2: Concrete Structures	I-3: Mechanical Behavior of Cement-Based Materials	I-4: Building Information Modelling	I-5: Construction Performance & Safety	I-6: Planning & Development
Two Directional Seismic Response Evaluation of Buildings Which Do Not Have Well- regulated Plane Shapes	Preliminary Results of a Shaking Table Tests on a 3-storey Building Realized with Cast in Place Sandwich Squat Concrete Walls	Recycled Concrete as an Aggregate in the Concrete Mix	Efficient Project Delivery with Data Integration and Use of BIM	Change in Output Performance Due to Prolonged Work	Performance Comparison Of Two Project Delivery Techniques
Yoshina Takahashi and Hisato Hotta	Gialda Gasparini, Tomaso Trombetti, Stefano Silvestri, Ilaria Ricci, Salvador Ivorra Chorro, Dora Foti	Matthew Nipperess, T. G. Suntharavadivel, Kai Duan, Patrick Rosayro	Max Shoura and Sunitha Jain	Dieter Schlagbauer and Detlef Heck	John Kuprenas and Scotty Galloway
Time-History Analysis on Seismic Performance of Gangue Concrete-Filled Steel Tubular Frame	Shear Capacity of Rectangular RC Beams with Continuous Spiral Shear Reinforcement	Finite Element Analysis of FRP-Reinforced Concrete Beams with Bond-Slip Under Fire Conditions		Biophilic Workplace Design: Improving Construction Ergonomics and Workers' Performance Through Enhanced Sustainable and Psychosocial Value of the Worksite	Valuing Flexibility in Infrastructure
Guochang Li, Chen Fang, Tong Mu, Qing Sun	Matthias Wild and Oliver Fischer	Xiaoshan Lin and Y. X. Zhang		Rita Obiozo and John Smallwood	David Carmichael and Maria Balatbat
Seismic Performance of Six- and Twelve-Story Staggered Wall Structures with Middle Corridor	Structural Behaviour of Continuous Shear Connectors in thin UHPC-Panels under Shear and Transverse Loading	Aggregate Interlock Push-Off Test Results of Self- Consolidating Concrete (SCC) for Use in Infrastructure Elements	Knowledge Representation in Bim for Evaluating Sustainability of a Building Design	Safety Balanced Scorecard (BSC) Framework for Benchmarking the Safety Performance of Saudi Schools	Concession Award for Indonesian Toll Roads - A Comparison Analysis
Joonho Lee and Jinkoo Kim	Thomas Lechner, Oliver Fischer, Gunter Seidl	Eric Sells, John Myers, Jeffery S Volz	Tang-Hung Nguyen and Shahabodin G. Toroghi	Turki Alolah, Rodney Anthony Stewart, Kriengsak Panuwatwanich, Sherif Mohamed	Reini Wirahadikusumah, Betty Susanti, Safitri, Biemo Soemardi
Seismic Analysis of Masonry Infill Buildings Based on Experimental Hysteresis Responses	Behavior of Reinforced Concrete Members Using Mechanical Splices at the Same Cross Section	Aggregate Interlock Characteristic of Palm Kernel Shell Concrete and its Contribution to Shear Strength	Building Information Modelling (BIM) and Integrated Project Delivery (IPD): Workplace Utilisation in Western Australia	Study on Strength of the Vertical Frame Corresponding to Fall Protection Method	Roadmap For The Assessment Of Megaprojects (Ramp): Four Cases From Lebanon
Shichun Zhao, Hongyan Liu, Qiwang Su, Shiling Pei	Dac Phuong Nguyen, Hiroshi Mutsuyoshi, Takuya Ohno, Takaomi Gotou	U. Johnson Alengaram, B. A. Al. Muhit and Mohd Zamin Jumaat	A. Whyte and M. Luca	Hiroki Takahashi, Katsutoshi Ohdo, Seiji Takanashi	Issam Srour, M. Asem Abdul-Malak, Mona Harb, Rikaz El-Bsat, Mona Itani
Low-cost Method for Seismic Retrofitting by CFT braces	Experimental Study on Influence of Bending Radius of Main Tensile Bars on Stress Transmission in Reinforced Concrete Knee Joints	Influence of Pozzolanic Materials on 0-3 Cement- Based Piezoelectric Composites	Developing a New Categorization for Information Modeling in the Architecture, Engineering, and Construction (AEC) Industry	Reducing the Risk of Alcohol and Other Drugs in Construction: An Australian National Assessment	The Rigor of Negotiation; Why Public Private Partnerships are Effective
Hiroyuki Nakahara, Sunao Akamatsu, Tatsuya Hanada, Yoichi Onomiya	Tuvshin Batjargal and Hisato Hotta	Huang Hsing Pan, Dung-Hung Lin and Ren-Hau Yeh	Hamed Moradi and Reza Dehghan	Herbert Biggs and Amy Williamson	William Maddex and Allan Chasey
Liquid Slosh Dynamics of Liquid Filled Baffled- Tank Under Harmonic and Seismic Excitations			Building Information Model for Selecting Environmental Building Materials	Study on Fall Protection Method for System Scaffolds During Assembling and Dismantling Works	Investigating The Execution of Formal Pre-Project Planning Processes In The Industrial Sector
Kishore Biswal and Santosh Kumar Nayak			Mohamed Marzouk, Mohamed Hisham, Mohamed Elsheikh Khalid Al-Gahtani	Katsutoshi Ohdo, Yasumichi Hino, Seiji Takanashi, Hiroki Takahashi	Samer Samara, Issam Srour, M. Asem Abdul-Mala
Seismic Analysis and Design of High Rise Buildings in Different Base Profiles	Behaviour of the Concrete Filled FRP 'Cans' Under Axial Loading	Image Characterization of Aggregate Interlock Interface of Self-Consolidating Concrete (SCC) Push Off Specimens	Early Onset Structural Simulation Strategies to Inform Architectural Design Through Building Information Modeling (BIM)	New Fall Prevention Methods for Disaster Repair Works of Slate Roof	Conceptual Framework For Strategic Planning By Engineering Consulting Firms
Liaqat Qureshi, Nasiruddin, N.S. Janjua, Usman Rasool	J. Bobadilla, H. Kim, T. G. Suntharavaivel, K. Duan	Eric Sells, John J Myers, Jeffery S Volz	Keith Hedges and David Beach	Yasumichi Hino	M. Asem Uthman Abdul-Malak, Isam Srour, Viviar Jreig
Cyclic Behavior of Steel Braces Buckled In- Plane	An Optimized Nonlinear Finite Element Design for Continuous RC Deep Beams	Utilization of Industrial Wastes for the Sintered Artificial Aggregate Production Technology	Adoption of Building Information Modelling as a Project Management Tool	Multi-level Gray Evaluation Model for Assessing Health and Safety Practices in Hot Weather	Mapping 'Rework' related Findings in South Africa
Cheng-Chih Chen and Wei-Chien Tang	S M Shahidul Islam and Amar Khennane	Vit Cerny, Rostislav Drochytka, Bozena Vacenovska	Swapan Saha, Mary Hardie, Xiao-Hua Jin, Sean Braid		Fidelis Emuze and John Smallwood

Luncheon Speaker: Jeffrey Chang, "Airports New Day Work Projects" 12:40 -13:15

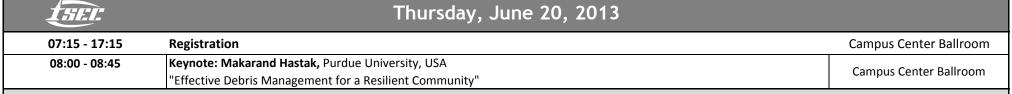
TSEI:	Technical Ses	ssion II: Wednesday	, June 19, 2013 - 1	3:30 - 15:30	
Session Chair: Yixia Zhang	Session Chair: Stojan Kravanja	Session Chair: Richard Fellows	Session Chair: Frank Yazdani	Session Chair: Thomas Korman	Session Chair: Mahabir Panda
CC307	CC308	CC309	CC310	CC203E	CC Exec. Dining Room
II-1: Dynamic Behavior	II-2: Steel Structures	II-3: Asphalt, Concrete, and Cementitious Composites	II-4: Bridge & Frame Structures	II-5:Construction Cost & Contracting	II-6: Geotechnical & Foundation Engineering
Dynamic Characteristics of Subsurface Ground	Material Properties and Structural Design		Controls on Structure Execution: Acceptance	Fuzzy Time-Cost Optimization Problem	Comparison of 2D and 3D Finite Element Analysis
dentified Using Earthquake Ground Motions	Recommendations for Steel Framed Buildings using High Strength Steel		Conditions and Types of Inspection for Cast on Site Reinforced Concrete	using Genetic Algorithm and Particle SWAM	of Underground Water Tanks Based on Soil- Structure Interaction Using GTS
Osamu Tsujihara, Kotaro Miyamoto, Terumasa Okamoto, Yoshitaka Mitsuiwa	Uksun Kim and Anhduong Le		Arie Gottfried, Giuseppe M. Di Giuda, Valentina Villa, Paolo Piantanida	VSS Kumar, Manal Osman, Vikram Bodu	Liaqat A. Qureshi, Kashif Amin, N. S. Janjua, Fayya Tahir
hear Wave Velocity Profile from Soil	Comparison of Design Formulas of Steel Beam-	Evaluation of the Effects of Recycled Asphalt	Monitoring During Construction Projects of	Life-Cycle Cost Analysis of Infrastructure	Using Chemical Grout to Control Groundwater
Resistivity Measurements in Geotechnical Characterizations	Columns Prescribed by Architectural Institute of Japan	Shingle on Binder Rheological Properties Using the Wet Process	Movable Bridges and Harbour Locks	Pavement Applications in Western Australia	
amri Chik and S.M. Taohidul Islam	Misato Kamijo and Masanori Kobayashi	Saman Salari, Mostafa Elseifi, Louay Mohammad	Hans De Backer, Amelie Outtier, Philippe Van	A. Whyte and L. Gayner	Jim Gentry and Daniel Magill
Dynamic Response of an Infinite Beam on a	Behavior of Damaged Steel Truss Bridges	Characterization of Asphalt Concrete and Asphalt	A Study on a Grout Joint for Precast	Payment Retention in United Arab	Experiments on Constructing an Artificial Reef
Pasternak Foundation Under a Moving Load	Repaired with Composite Tendons	Binder for Moisture Damage Using Nanoscale Testing	Prestressed Concrete Slab Bridges	Emirates (UAE) Construction Projects	Using Electrolysis
lagehan Evcan and Abdul Hayir	Garrett Brunell and Yail Jimmy Kim	Md Arifuzzaman and Rafiqul Tarefder	Hyeong-Yeol Kim, Sang-Yoon Lee, Jae-Joon Song	Tarek Labban, Salwa Beheiry, Micheal Obeid, Mohamed Ali	Conor Hyland
on Engineering Approach to Particle Physics	Next Generation Steel Moment Frame Connections for Integrated Seismic Resistance in Wood Structures	Nanomechanical Characterization of Asphalt Binder	The Combined Deterioration of Prestressed Concrete Bridge Girders Caused by Alkali-Silica Reaction and Chloride Induced Steel Corrosion	Performance-Based Bidding Decisions For Egyptian Road Contractors	Strengthening Method of Soft Grounds by Staged Local Consolidation
Matthew Cepkauskas	Steven E. Pryor and Thomas M. Murray	Rafiqul A. Tarefder and Hasan M. Faisal	Masahiro Asada, Kouji Ishii, Kazuyuki Torii	Maged Georgy and Rania Eldin	Haruyuki Yamamoto and He Huang
Dynamic Finite Element Analysis of a Rockfall	Impact Response Analysis of Steel Portal Frames		Performance Evaluation of Reinforced	Underrun of Required Crane Capacity –	Numerical Simulation of Ground Displacement
Protective Wire-Rope Fence	Under Falling Weight Impact Loading		Concrete Bridge Decks Strengthened with FRP Laminates	Losses of Productivity during Reinforcing Works	Behaviors due to Unsteady Seepage Flow
Phuc Tran Van, Koji Maegawa, Saiji Fukada	Masato Komuro, Norimitsu Kishi, Wai-Fah Chen		Neda Bozorgi and Alireza Khaloo	Christian Hofstadler	Lingyu Meng, Haruyuki Yamamoto
Acoustic Vibrations of Piping Systems	Research of the Connection Configuration Between Rectangular CFT Column and Steel		Reconstruction of Northern State Parkway and Route 110 Interchange	Modeling and Forecasting Fluctuation of Asphalt Cement Price Index	Predicting the Effect of Excavation Sequence on Settlement During Tunneling Using NATM Throug
Matthew Cepkauskas	Beam: The State of the Art Zhihua Chen, Ying Qin, Ning Han, Yuan Yang		Henry Hessing	B. Ashuri, M. Ilbeigi, Y. Hui and S. M.	FEM A. Marto, H. Sohaei, M. Hajihassani, E. Namazi
analytical Developments and Shaking Table Tests on Dynamic Behavior of Squat Silos Containing Grain-Like Material	Evaluation of Buckling Mode Number and Compression-to-tension Strength Ratio of Buckling-restrained Braces	Dynamic Material Properties of a High Performance Hybrid-fiber Reinforced Cementitious Composites	Numerical Analysis of PcaPC Frame Structure with MILD-PRESS-JOINT	Shahandashti Critical Success Factors for the Delivery of Construction Projects	Seismic Soil-Structure Interaction in Fully Integral Abutment Bridges with HP Steel Piles
omaso Trombetti, Gialda Gasparini, Stefano Gilvestri, Dora Foti, Salvador Ivorra	Tetsuhiro Asari, Mamoru Iwata, Mitsumasa Midorikawa, Masatoshi Murai, Yasutaka Tanaka	J. Li, H. X. Yang and Y. S. Huang	H. Sakata, T. Suyama, A. Wada, Y. Matsuzaki	Mahdi Mohamed Albdulsamad Ali, Paul Stephenson, Alan Griffith	Yu Bao and Andrew Rietz
New Method of Calculation of the coundations Vibrations	Basal Study on Reliability Improvement of Thickness Measuring Result by Applying Portable Ultrasonic Thickness Gauge to Corrode Plate	Strength Properties of Fly-Ash Concrete Mixed with Limestone Powder	Distribution of Longitudinal Shear in Composite Steel and Concrete Bridge Trusses	Design Buildings Optimally: A Lifecycle Assessment Approach	Artificial Neural Networks Compared to Finite Element Technique for Prediction of Longitudinal Surface Settlement Induced by NATM Tunneling
Alexey Kolesnikov and V.N. Popov	Tatsumasa Kaita, Hiroki Nishioka, Yasuki Suqiyama, Koji Nakazawa, Katashi Fujii	Isamu Yoshitake, Yuya Tokikuni, Hiroki Komure, Sunao Fukumoto	Josef Machacek and Martin Charvat	Ossama Hosny and Ahmed Elhakeem	A. Marto, M. Hajihassani, H. Sohaei, F. Kasim

Session Chair: S.M. Shahidul Islam	Session Chair: Lewei Tong	Session Chair: Natalie Lloyd	Session Chair: Andrew Whyte	Session Chair: Issam Srour	Session Chair: Lilita Ozola
CC307	CC308	CC309	CC310	CC203E	CC Exec. Dining Room
III-1: Nonlinear Behavior	III-2: Building Structures	III-3: Pavement & Concrete Mix Designs	III-4: Infrastructure & Bridges	III-5: Education & Regulation	III-6: Energy & Environment
Modeling of Fatigue Type Processes with Damage Mechanics		Influence of Recycled Aggregates on Horizontal Cracking in Continuously Reinforced Concrete Pavements	Reducing Bumps at Pavement-Bridge Interface	Embedding Leadership Development In Construction Courses	
Andrew Reberg, Siamak Yazdani, Svenn Borgersen, Mijia Yang, Yail J. Kim		Hans De Backer and Amelie Outtier	AKM Anwarul Islam and Amar Shukla	Suat Gunhan	
Analysis Using Natural Strain Sy	ystem and Metal Stud Stiffened Timber-Box	Comparison of Two Mixing Methods for Producing 100 MPa High Performance Concrete Rice Husk Ash	Behavior of Tubular Metallic Composite Columns Filled with Recycled Aggregate Concrete	Dilemmas of Ethical Practice: A study of Responsible Engineering	Identification of Bottle Neck in Road Network by Using Traffic Simulator
Yasuyuki Kato and Masahiro Futami Jo	ohn Mander and Madhu Karthik	Hilmi Bin Mahmud and Syamsul Bahri	P.K. Gupta, Heaven Singh and A. Ahuja	Anna Yan	Eisuke Kita, Wataru Nanya, Yukiko Wakita
Subjected to Varying Axial Forces in a	earching Effective Structural Forms: volutionary Structural Optimisation vs tructural Concepts	Development of Highway Pavement Concrete Mixtures for Enhanced Workability and Durability	Experimental and Numerical Analysis of Minimum Backfill Cover of Buried Concrete Pipes According to Local Practice of Iraq		Perceived Air Quality vs Performance and Productivity
Liu Mao and Kido Masae Xi	iaoye Yu and Tianjian Ji	Nadim Wehbe and Jason Stripling	Abbas Oda Dawood		Ingrid Senitkova and Miroslav Badida
"Chisuikan" Using Three-Dimensional Seismic Isolation System	Case for Incorporating Construction ngineering into the Design Process arrives Banchik and Robert Naples	Fracture Properties of Geopolymer Concrete Cured in Ambient Temperature Pradip Nath and Prabir Kumar Sarker		Computer Supported Distribution and Assessment of Homework Assignments in Mechanics Bostjan Harl, Marko Kegl, Dejan Dinevski	BIM-Based Integration of Energy Saving and Cost Effectiveness for Building Envelopes Po-Han Chen, Long Chan, Yu-Chieh Lee
Development of Nonlinear Transfer Matrix Method for Continuous Beam	esign of Viscous Dampers for the Seismic etrofit of Plan-Asymmetric Structures uca Landi, Pier Paolo Diotallevi, Giulia Castellari	The Effect of Coarse Aggregate Saturation Condition on the Properties of Concrete Chee Khoon Ng, Yik Kok Wong, Delsye Ching Lee Teo	Girders with Structured Web – Ongoing Research Harmut Pasternak and Susanne Bartholome	Regulatory Control of Civil and Structural Engineering Education Klaus Holschemacher and Ulrike Quapp	New Waterwheel Blades for Power Generation in Kuroshio Huang Hsing Pan, Po-Chang Lee, Chuan–Tsung Lee Pou-Sz Lin
Elasto-Plastic Behavior of Offset Beam-to- Column Connection Panels with Exterior Diaphragms	IFPA Code Provisions and Fire-Retardant- reated Wood Pavid Bueche	Effects of Aggregates to the Electrical Resistivities of Concrete  Tsung-Chin Hou and Van Kien Nguyen	Connector and Coupler System of Full-Depth Precast Deck Panel System	Fulfillment of the Engineer's Role under the Construction Contract M. Asem Uthman Abdul-Malak, Isam	
Ozono				Srour, Layal Naeem	
On the Modelling of Residual Stress in Advanced Analysis of Steel Frames		Fly Ash Based Geopolymer Concrete: A Review	Service Life Assessment of a Bridge from Dynamic Response Collected using Wireless Sensors	Reactions to Emotive Language In Contract Clauses	Application Effects of Eco Value Engineering Support System for Urban Regeneration Projects
S. Shayan, K. J. R. Rasmussen and H. Zhang		Pradip Nath and Prabir Kumar Sarker	A. K. M. Anwarul Islam, A. B. M. Rahman and Frank Li	Cindy Menches and Lawrence Dorn	Hong-Won Park, Jong-Hyeob Kim, Chang-Taek Hyun, Sang-Won Han, Kyung-Ho Yang
	Study on the Techniques Ofstrain Estimation oevaluate the States of Building Structures	Water Absorption Capacity of Latex Modified Concrete		Extreme Service-Learning: Engaging a University Design-Build Course with a Broadcast Network Television Show in the Aftermath of the Joplin Tornado	Evaluation of Indoor Environmental Quality for Subways in Egypt Using BIM
-	unah Shin, Jihoon Lee, Yousok Kim, Hyo Seon ark	Brajkishor Prasad	Amelie Outtier, Bart De Pauw, Hans De Backer, Philippe Van Bogaert	Traci Dawn Sooter, Nancy Chikaraishi, Keith Hedges	Mohamed Marzouk and Ahmed Abdelaty

**Evening Reception: Wednesday, June 19, 2013 - 18:15 - 19:45** 

Light Pupus (Appetizers) and Beverages
Entertainment: Taiko Endo Drum Dance

**Campus Center Ballroom** 



## Tea & Coffee Break 08:45 - 09:15 (Campus Center Ballroom)

TSEC.	Technical Se	ssion IV: Thursday,	June 20, 2013 - 0	9:15 - 11:15	
Session Chair: Alexey Kolesnikov	Session Chair: Svenn Borgersen	Session Chair: Arie Gottfried	Session Chair: Klaus Holschemacher	Session Chair: John Smallwood	Session Chair: Indubhushan Patnaikuni
CC307	CC308	CC309	CC310	CC203E	CC Exec. Dining Room
IV-1: Fatigue & Stability	IV-2: Strengthening of Structures	IV-3: High-Strength & Pre-Stressed Concrete	IV-4: Damage Detection & Retrofit	IV-5: Best Value & Benchmarking	IV-6: Sustainable Solutions for Environment & Climate
	Silyl Modified Polymer for Steel Members	High Strength High Volume Fly Ash Concrete	Deformability of Concrete Beams Reinforced	Challenges to Apply Best Value in Malaysia	
	Strengthened with CFRP	ladabbashan Datasilani Saisaan Satasa	with Embedded CFRP Plates	Construction Industry	
	J. Kim, T. Siriwardanage, I. Yoshitake, S. Yazdani, and M. Yang	Indubhushan Patnaikuni, Sujeeva Setunge, Mochamad Solikin, Xiao Ling, Bindu Boina	Rachael Ohu, Mohd Jaafar, Farah Aznieta, Ahmed Al-wathaf	Dean Kashiwagi, Abraham Kashiwagi, Isaac Kashiwagi	
Buckling Analysis of Stiffened Plates With	Strengthening Concrete Beams Using Fibre	Flexural Behavior of Composite Girders	Small Hidden Object Identification Through	Best Practices For Inspection Of	Design Solutions to Reduce the Carbon Emissions
Closed-Section Longitudinal Stiffeners Under	Reinforced Polymer	Consisting of Hybrid FRP and Precast Ultra High-	Bridge Weigh-In-Motion Data for Security	Underground Pipe Construction	of Existing Residential Buildings in Hong Kong
Axial Compression	Reinforced Polyffiel	Strength Fiber-Reinforced Concrete Slabs	Purposes	onderground ripe construction	of Existing Residential Buildings in Florig Rong
Byung Choi	Alan Richardson and Daniel Tarbox	S.V.T. Janaka Perera and Hiroshi Mutsuyoshi	Mijia Yang and Lutfur Akand	Edward Minchin, Lourdes Ptschelinzew, Raymond Issa	S. Thomas Ng and Pui Yuen Kwan
Stability of R/C Solar Updraft Towers	Bond Properties of CFRP Strips and Steel Under	Shear Behavior of Reinforced High-Strength	Repair of GFRP-RC Bridge Barrier	Best Practices In Design Process	Assessment Of Indoor Environmental Quality For
	Low Temperature	Concrete Beams Without Web Reinforcement		Development For Accelerated Construction Project Delivery	Leed Certification In Developing Countries
Takashi Hara	Isamu Yoshitake, Hisatsugu Tsuda, Jyunpei Itose,	S.V.T. Janaka Perera, Hiroshi Mutsuyoshi	Ehab El-Salakawy and Mohammad Rubiat	Edward Minchin, Giovanni Migliaccio,	Ruveyda Komurlu, Alsi Pelin Gurgun, David Arditi
	Nobuhiro Hisabe, Yail Jimmy Kim		Islam	Kenneth Atkins, Gregg Hostetler, Thomas	
				Warne, Gregory Nettuno	
Verifying the Stability of Unconventional Cable	Shear Strength Behavior of Infill Walls	Comparison between Brazilian and French Code	Possible Solutions for Realizing the Retrofitting	Understanding Best Management Practice	Assessment Of Leed Requirements For Water
Stayed Bridges with an Innovative Approach	Strengthened by Carbon Fiber Reinforced	Specifications of Verification of Bonded and	Design of the Asinelli Tower in Bologna, Italy,	for Integrated High Performance Civil	Efficiency In Developing Country-Based
	Cementitious Matrix	Unbonded Prestressed Concrete Members	Using Different Temporary Structures	Engineering & Science Teams	Certification
leva Misiunaite and Algirdas Juozapaitis	Mehmet Okten, Cemil Ozkan, Mustafa Gencoalu,	Paula Manica Lazzari, Am érico Campos Filho,	Gialda Gasparini, Tomaso Trombetti, Stefano	Simon Clubley	Asli Pelin Gurgun, Ruveyda Komurlu, David Arditi
<b>3</b>	Kadir Guler	Francisco Simões Lopes Gastal	Silvestri	,	, , , , , , , , , , , , , , , , , , , ,
Fatigue Test of Steel Reinforced Concrete	Behavior of Reinforced Concrete Beam-to-	Environmental Impact Assessment of Post	The Effect of Reinforcement on Early-Age	Strengths, Weaknesses, and Value of	
Girders in High-Speed Railway Station	Column Connections Strengthened with CFRP	Tensioned and Conventional Reinforced Concrete	Cracking of Bridge Deck Slabs Reinforced with	Project Management Implementation: A	
- , ,	Laminates	Slab Design	GFRP Bars	Project Management Assessment Tool	
Lewei Tong, Qingjun Xian, Liying Zhou, Yiyi	Rania Khattab, Sherif Safar, Magdy El-Sheikh,	Dane Miller, Jeung-Hwan Doh, Tim Peters	Ehab El-Salakawy and Amir Ghatefar	Antonio Sanjuan and Thomas Froese	
Chen	Nabil Yehia				
Experimental Research on Corrosion Fatigue	Effect of Seismic Retrofitting by CFT Braces on	Comparative Analysis of the Ultimate Stress in	Construction Usage of Reinforced Steel and	Managing Value in Realising Construction	Bayesian Network Model of Passenger's Injury Du
of GFRP Bar Lightweight Aggregate Concrete	Existing RC Building	Bonded and Unbonded Tendons	Non-Destructive Testing	Projects Through Co-Creational	to Traffic Accident
Beam				Sensemaking	
Guochang Li, Lei Tian, Tao Liu	Hiroyuki Nakahara, Sunao Akamatsu, Tatsuya	Paula Manica Lazzari, Am é rico Campos Filho,	Chen Ming-Chen and Shu-Ping Chang	Richard Fellows, Anita Liu, Colin Storey	Eisuke Kita, Hiroki Kato, Yukiko Wakita
Fatigue Bahavier of the Steel Circles Flance	Hanada, Yoichi Onomiya	Francisco Simões Lopes Gastal	Application of Fuzzu Logic as an Innervative	Schodula Barfarmanca Analysis for	Load Cartification: A Comparison Of Caster at and
Fatigue Behavior of the Steel Girder Flange with Misaligned Butt Welded Joints	The Resistance Function of FRP-Jacketed RC Columns: Experimental Investigation and	An Experimental study on the Flexural Behavior of Pretensioned Concrete Beams with CFRP	Application of Fuzzy Logic as an Innovative Tool for Structural Health Monitoring of a	Schedule Performance Analysis for Integrated Project Delivery	Leed Certification: A Comparison Of Contractors'
with wisaligned butt welded joilits	Modeling	Tendons	Model Bridge	integrated Froject Delivery	Perspectives
Masahiro Sakano, Daisuke Yamaoka, Tetsuya	Chung-Sheng Lee	Woo-Tai Jung and Young-Hwan Park	Mohammad Azarbayejani and Luis Galvan	Mounir El Asmar and Awad Hanna	Sevgi Zeynep Dogan, Suat Gunhan, Bilge Gercek,
Mizuno	onang oneng Lee	Troo . a. sang and roung riwan rain	The state of the s	2. Ashar ana Awaa Fanna	David Arditi
Development of Seismic Damage Evaluation	Sustained Intensities and Cold Temperature	Experimental Study on the Fire Behavior of High		Construction Strategy Formulation and	Consideration of Greenhouse Warming Potential
Method on Stability of Concrete Gravity Dams	Exposure on Flexure of Damaged Steel Beams	Strength CFT Square Columns Without Fire		Assessment	Infrastructure Planning
. , , , , ,	Strengthened with Composite Sheets	Protection			-
Takana Miahinahi	Assert Havidge Harmon Kinn and Charles W.	Kunanaa Chuna Inaali Chai II dha Wa		Name Trans. Alon Brazell Charles Co.	India Course Conin Voltage Cline State Con
Tatsuo Nishiuchi	Amer Hmidan, Jimmy Kim, and Siamak Yazdani	Kyungsoo Chung, Inrak Choi, Jinho Kim		Ngoc Tran, Alan Russell, Sheryl Staub-	Julia Sauer, Sonja Xalter, Oliver Fischer, Stephan
				French	Freudenstein

Free Time 11:15 - 11:30

Lunch 2: 11:30 - 13:00 (Campus Center Ballroom)

<b>ÍSEC</b>	Technical Se	ession V: Thursday,	June 20, 2013 - 1	3:00 - 15:00	
Session Chair: Guochang Li	Session Chair: Swapan Saha	Session Chair: Thomas Froese	Session Chair: Henry Hessing	Session Chair: Suat Gunhan	Session Chair: Makarand Hastak
CC307	CC308	CC309	CC310	CC203E	CC Exec. Dining Room
V-1: Concrete & Concrete-Like Materials (I)	V-2: Building Systems I	V-3: Creep & Vibration Studies	V-4: Analysis of Structures	V-5: Procurement, Delivery & Risk Management	V-6: Project Management
Geopolymer Concrete Sulphate Resistance	Innovative Beam-to-Column Joint Design of Moment Resisting Steel Frames in Seismic Regions	Mitigation of Content Damage for Tall Cross Laminated Timber (CLT) Buildings During Earthquake Events	Parametric Study of Wind Loads on Canopy Roofs	The Solution Behind the Revolutionizing of the Dutch Construction Industry	Emotional Quotient (EQ) and Managing Construction Projects
Dafi Sahouryeh and Natalie Lloyd	Mijia Yang, Francisco J. Cantu, Frank Yazdani, Jimmy Kim	Shiling Pei, John W. van de Lindt, Hongyan Liu	Ashok Kumar Ahuja and Amrit Kumar Roy	Dean Kashiwagi, Jacob Kashiwagi, Abraham Kashiwagi, Kenneth Sullivan	John Smallwood, Fidelis Emuze, Charissa Bloomberg
Toughness Tests on Mix-Designed HRC and HSFRC Specimens Performed with Volcanic Aggregate	Dual Confinement of Circular Concrete Columns by CFRP Sheets and Lateral Steel Reinforcement	Relationships in Creep Development of Timber Beams Under Natural Environmental Conditions	Reconfiguration and Destructibility Design for Industrial Furnace Retrofit	Modeling and Managing Construction Risk	Critical Success Factors for LSTK Projects: The Contractors' Perspective
Laura Anania, Antonio Badala , Giuseppe D'agata	Klaus Holschemacher and Stefan Kaseberg	Lilita Ozola and Aivars Brokāns	Tim Hogue and David E. Stanley	Alan Russell and Diego Orozco	Sadi Assaf, Mohammad Hassanain, Khalaf Al-ofi, Hussain Al-Rukhaimi
Properties of Fly Ash and Slag Blended Geopolymer Concrete Cured at Ambient Temperature	Structural Design of Freeform Tall Buildings	Error Propagation Analysis of Hybrid Simulation for Seismic Hazard Mitigation	Seismic Retrofit of Existing Buildings with Viscous Dampers: A Direct Procedure for the Determination of the Required Supplemental Damping	Contingency Planning During Project Life Cycle	A Case Study in Complex Project Management: T- REX
Partha Sarathi Deb, Pradip Nath, Prabir Kumar Sarker	Kyoung Sun Moon	Cheng Chen and Frank Sanchez	Pier Paolo Diotallevi, Luca Landi, Simone Lucchi	Ye Zhang and Ali Touran	Carla Lopez Del Puerto, Jennifer Shane, Douglas Gransberg
Effect of Curing Method and Curing Period on Characteristic of Compressive Strength for Ca Concrete	Structural Design of Building Using Directly Connencted Method with Steel Tube Column and Pile Head	High Velocity Impact Responses of Engineered Cementitious Composite Panels	Composite Concrete/GFRP Slabs Under Concentrated Loads	The True Effect of Correlation in Risk Assessment of Large Construction Projects	EWB: Constructing a Bridge in Nicaragua
Atsushi Shimabukuro and Ken-Ichi Hashimoto	Akifumi Takeda and Haruyuki Yamamoto	Y.X. Zhang, Khin Soe, L.C. Zhang	Roberto C Pinto, Daniel Vieira V, Henriette L Larovere	Eduardo Gamez and Payam Bakhshi	Roger Tamaru, Conor Hyland
High Strength Concrete with Carbon Nanotubes	Modeling of Steel Angle Braces Behavior and its Utilization in Frame Design using Advanced Analysis		Effects of Coupling Ratios on the Behavior of Coupled Walls	A Balanced Risk Treatment For Construction Projects	Exploring Construction Management Students' Preferences Regarding Employer Organizational Culture
Rudolf Hela, Lenka Bodnarova, Ales Florian, Lenka Sevelova	Anna Maria Barszcz and Marian Antoni Gizejowski		Chung-Chan Hung and Wei-Ting Lu	Maged Georgy, Nael Zabel, Moheeb Ibrahim	Carla Lopez del Puerto and Evie Chenhall
Structural Engineering and Testing Fiber Reinforced Concrete Material Properties	Problems of Behaviour and Analysis of Glass Structural Members with Respect to Their Application in Construction	Dynamic Response Analyses for Human-Induced Lateral Vibration on Congested Pedestrian Bridges	Critical Buckling Moment in Plate Girders with Stiffeners, Discrete Lateral Torsional Restrains and a Combination of Both		Project Alliances in the Australian Construction Industry - Transaction Attributes and Costs
Clifford MacDonald	Jindrich J. Melcher and Marcela Karmazínová	Masahiro Yoneda	Ayman Y. Nassif and Antonio J. A. Naveira		Gang Chen, Guomin Zhang, Yi-Min Xie
Quick Method for Evaluating Concrete Carbonation Suppressive Performance of Coating Materials	Diagnostics of Existing Steel Roof Structures of Winter Stadiums		Seismic Retrofit of Soft-Story Wood-frame Buildings using Cross Laminated Timber	Owner Controlled Delivery of Construction Degrades Quality and Value	Analysis and Definition of Spatial Temporal Measures
Yasuharu Kawamura and Kenji Motohashi	Marcela Karmazinova, Jindrich J. Melcher, Lubomir Vitek		John van de Lindt, Pouria Bahmani, Mikhail Gershfeld, Giraj Kumar Kandukuri, Shiling Pei	Dean Kashiwagi, Jacob Kashiwagi, Jake Smithwick, Isaac Kashiwagi, Abraham Kashiwagi	Abdel Hady Hosny, Khaled Nassar, Ossama Hosny
Compressive and Splitting Tensile Strength of Autoclaved Aerated Concrete (AAC) Mixed Perlite Under High Temperatures	Experimental Evaluation of Strength and Stiffness of Innovative Concrete/Cold-Formed Steel Composite Beam	Experiences From the Reconstruction After the 2009 L'Aquila Earthquake: Damage, Vulnerability, Retrofitting	Some Considerations for Safety and Robustness of Structures	Should the Trend from Traditional Design/BID/Build Project to More Negotiated and/or Design/Build Projects Affect Construction Project Planning and Control Systems?	
Borvorn Israngkura Na Ayudhya and Yothin Ungkoon	Nadim Wehbe and Pouria Bahmani	Marco Mezzi and Paolo Petrella	Lilita Ozola	Thomas Korman, Hal Johnston, Lonny Simonian, Na Lu	
	Tea & C	offee Break 15:00 - 15:	30 (Campus Center Bal	lroom)	

TSEI:	Technical Se	ssion VI: Thursday,	June 20, 2013 - 1	5:30 - 17:00	
Session Chair: Ali Touran	Session Chair: Alan Russell	Session Chair: Mijia Yang	Session Chair: Brajkishor Prasad	Session Chair: Kishore Biswal	Session Chair: Max Shoura
CC307	CC308	CC309	CC310	CC203E	CC Exec. Dining Room
VI-1: Concrete & Concrete-Like Materials (II)	VI-2: Building Systems II	VI-3: Modeling & Optimization	VI-4: Facilities & Housing	VI-5: Concrete Systems	VI-6: Construction Processes & Transaction
Recycled Concrete and Demolition Waste	Structural Systems for Tapered Tall Buildings	From Affordability to Sustainability and	A Study of Building Foundations in Perth CBD,		Implementation of a Real-Time Information System
Aggregate in Concrete		Durability: Earthen Masonry for Hot and Humid Regions	Western Australia		for a Roofing Manufacturer
Natalie Lloyd, Katarina Van Der List, Natalie Re	Kyoung Sun Moon	Esther Obonyo	Vinod Ravji Rupalia and Vanissorn Vimonsatit		Dean Kashiwagi, Dhaval Gajjar, Jake Smithwick, Jacob Kashiwagi
A Laboratory Study on Use of Waste		Damage Localization of Structures Identified with	Active Control of Across-Wind Responses of		Transaction Formalism Protocol In The Domain Of
Polyethylene in Bituminous Concrete Mix		Deterministic-Stochastic Models Using Seismic	Tall Building		Infrastructure Management
Mahabir Panda, Biswanath Prusty, Ujjal Chattaraj		Data Yen-Po Wang, Tzu-Kang Lin, Kung-Chung Lu, Yi- Ting Lin, Ming-Lian Chang	Y. M. Kim, K. P. You, J. Y. You		Jehan Zeb and Thomas Froese
Effects of a Hydrogel on the Material Properties of Mortars	Numerical Analysis on Direct Connection With Steel Tube Column and Pile Head	Hybrid Genetic Algorithm for Optimal Seismic Design	Development of a Radiant Barrier Residential Roof Energy Saving Calculator for Southern US Climatic Conditions	Flexural Behavior of Concrete Beams Reinforced with High Volume Steel Fibers	A Framework for a Carbon Management System For Large-Scale Construction Projects
Kung-Chung Hsu and Yi-Ting Chou	Akifumi Takeda and Haruyuki Yamamoto	Se Woon Choi, Yousok Kim, Hyo Seon Park	Somayeh Asadi and Marwa Hassan	Alireza Khaloo, Hooman Sedaghat Jahromi, Armita Mohammadian	Hyunwoo You, Kang-Wook Lee, Woosik Jang, Ja Bum Lee, Seung-Heon Han, Kyeong-Hee Jeong
Development of Green High Strength	Experimental Study on Flexural Strength of Beam	Topology Optimization by Using a Level Set	Sensitivity Analysis of Attic Radiant Barrier		Optimal Fleet Selection for Earthmoving
Lightweight Concrete in Malaysia	web of H-Shaped Steel Beam Web with Slabs Connected to Circular CFT Columns	Function and Design Elements	Performance to Climate and Local Environmental Variables in the United States		Operations
Hilmi Bin Mahmud, Payam Shafigh, Mohd Zamin Jumaat	Sha Li and Masae Kido	Marko Kegl, Bostjan Harl, Dejan Dinevski	Somayeh Asadi and Marwa Hassan		Jiali Fu, Erik Jenelius, Haris N. Koutsopoulos
Effectiveness of Ceramic Waste as Fine Aggregate in Mortar		Study on Integrated Computer Aided Design Method for Series of Steel Roof Truss Based on Genetic Algorithm	Accounting for Stakeholder Perceptions in Sustainable Retrofits of Existing Buildings using House of Quality Approach	Structural Analysis and Design of Replacement Water Columns for Boilers	Enhancing Schedule Compression Process Using Evolutionary Optimization Techniques
Hiroshi Higashiyama, Manote Sappakittipakorn, Kiyoshi Yamauchi, Osamu Takahashi		W. Punurai, W. Nantayatron, N. Pholdee	Carol Menassa and Bradley Baer	L. David Wilson, Jason C. Merritt and B. David Gibson	Kamran Hazini, Reza Dehghan, Janaka Ruwanpura
Effects of Segregation on Test Results of	A Dismantleable Prefabricated Reinforced	Unconditionally Stable Explicit Integration	A Steel Bridge Rust Discrimination Approach		Uncertain and Real-Time Construction Logistic Data
Mechanical Properties of Concrete	Concrete Building System with Controlled Joint	Algorithms with Controllable Numerical Damping	Combining Support Vector Machine and Neural Networks		for Proactive-Reactive Simulation-Based Scheduling
Zhuguo Li	Properties for Multi-Storey Buildings Jiri Witzany, Tomas Cejka, Radek Zigler	for Real-Time Hybrid Simulation Cheng Chen and Neli B. Avramova	Po-Han Chen, Heng-Kuang Shen, Luh-Maan Chang		Lars Laussat and Manfred Helmus
Free Time 17:00 - 19:00					

Free Time 17:00 - 19:00

**Conference Banquet: Thursday, June 20, 2013 - 19:00 - 21:45** 

**Dinner Banquet Function** 

Entertainment: Tihati Productions Ltd.

Campus Center Ballroom

Technical Tours: Friday, June 21, 2013					
Technical Tour 1 (TT1) - Waste Energy: HPOWER, Waste Management, Hawaiian Earth Products	[07:45-16:15]				
Technical Tour 2 (TT2a) - HECO (Hawaiian Electric Company): Bio-Fuel (CIP) Plant, Kahe Power Plant	[11:45-16:15]				
Technical Tour 2 (TT2b) - HECO (Hawaiian Electric Company): Kahe Power Plant, Bio-Fuel (CIP) Plant	[11:45-16:15]				
Technical Tour 3a (TT3a) - AECOM Military Construction Project & H-3 Control Room (Group 1)	[08:15-13:00]				
Technical Tour 3a (TT3a) - AECOM Military Construction Project & H-3 Control Room (Group 2)	[10:15-15:00]				
Technical Tour 3b (TT3b) - Kawailoa Wind Farm (Bus 1)	[9:45-15:30]				
Technical Tour 3b (TT3b) - Kawailoa Wind Farm (Bus 2)	[9:45-15:30]				

Accompanying Persons Tours: 5 Person Minimum Required	
Accompanying Person Tour 1 (APT1) - <b>June 19, 2013</b> : Arizona Memorial, Chinatown, Ala Moana Shopping Center	[09:30 - 16:45]
Accompanying Person Tour 2 (APT2) - <b>June 20, 2013</b> : Circle Island - Diamond Head, Hanauma Bay, Blowhole, Makapu`u, Sunset Beach, Haleiwa Town, Dole Pineapple Plantation	[08:45 - 16:00]

Cultural Tours: 8 Person Minimum Required	
Cultural Tour 1 (CT1) - June 22, 2013: Polynesian Cultural Center	[12:00 - 22:45]
Cultural Tour 2 (CT2) - June 23, 2013: Ali`i Kai Dinner Cruise	[12:00- 21:30]