



#### **ASEA-SEC-5 Program**

Monday – November 30, 2020		
19:00 - 20:30	Icebreaker and Welcome Reception Videos on Christchurch, Ara, and the Haka Dance Breakout Room Networking Opportunity and Virtual Socializing	V-Room A  https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZ oS2RTdEIQMWVOcUVSQT09  PMI: 336-508-2496 Password: 395011

Tuesday – December 1, 2020			
Registration and Coffee			
08:00 - 17:30	Registration (The registration desk will be open during conference hours)	K-block (Kahukura) foyer	
08:30 - 09:00	Registration – Tea and Coffee	for onsite participants	
	Opening Session		
	Conference Briefings Housekeeping, Health, and Safety		
	Mihi (Maori Welcome)		
	Welcome and Introductions		
	Hossein Askarinejad, Conference Chair		
	Welcome to the Ara Institute of Canterbury and Department of		
09:00 - 09:25	Engineering and Architectural Studies  Michael Edmonds - HOD	V-Room A  https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZ oS2RTdEIQMWV0cUVSQT09 PMI: 336-508-2496	
	Welcoming Remarks		
	Amarjit Singh, ISEC Society President		
	Announcements		
	Hossein Askarinejad, Conference Chair	Password: 395011	
09:25 - 09:35	10-Minute Break		
	Keynote I: John B. Mander, Texas A&M University		
09:35 - 10:05	Title: A Probabilistic Decision Theory for Preventative Maintenance of Steel		
10.07 10.10	Bridge Structures		
10:05 - 10:10	5-Minute Break		
10:10 - 10:40	Keynote II: Bryan Pidwerbesky, Fulton Hogan Ltd		
10.10 10.40	Title. Sustainable Favernents & Multi-Chieria Arialysis		
Tea & Coffee Break 10:40 - 11:00			





Technical Session I – Tuesday, December 1, 2020, 11:00 - 13:00				
	Location: Kahukura Building (Dept. of Engineering and Architectural Studies)  Moderator: Siamak Yazdani  Moderator: Asli Pelin Gurgun			
	Co-Moderator: Ajith Thamboo	Co-Moderator: Tak Wing Yiu		
	IT Staff: Christina Chen	IT Staff: Christina Chen		
	V-Room A	V-Room B		
	https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdEIQMWVOcUVSQT09 PMI: 336-508-2496, Password: 395011	https://us02web.zoom.us/i/3666822714?pwd=UE9wZ1QvcG1FcEsvOEQ3ay9LViswUT09 PMI: 366-682-2714, Password: 142731		
	I-A: Concrete Structures and Materials	I-B: Project Management and Dispute Resolution		
	STR-04, CONFINEMENT OF RC COLUMNS WITH CFRCM	CPM-05. FACTORS THAT DETERMINE WHEN TO ENGAGE PRE-CONSTRUCTION SERVICES		
1	Dennis Messerer and Klaus Holschemacher	Paul Stephanus Botha, Daniel Van Der Walt, and Eric Scheepbouwer		
·	Definis Messerer and Maus Hoischemacher	Faul Stephanus Botha, Daniel Van Del Walt, and Elic Scheepbouwer		
2	STR-13, EFFECTS OF CONCRETE OVERLAY JOINT CONDITIONS AND STRAIN RATE ON SPLITTING TENSILE PROPERTIES	CON-21, CONTRACTS EVALUATION THROUGH CLASSIFIED REWORK ROOT CAUSES IN THE CONSTRUCTION STAGE OF PROJECTS		
	Keita Sugimoto and Tatsuo Nishiuchi	Ramin Asadi, Suzanne Wilkinson, and James Olabode Bamidele Rotimi		
3	STR-25, EFFECT OF SUBSTRATE PREPARATION ON THE LOAD-BEARING BEHAVIOR OF CFRP-CONFINED RC COLUMNS	CON-25, CONTINGENCY PERCEPTIONS OF TRADITIONAL VERSUS COLLABORATIVE-BASED CONSTRUCTION CONTRACT CLAUSES		
	Klaus Holschemacher, Dennis Messerer, and Stefan Kaeseberg	Dana Dardoon, Wisam Manlla, and Ghada Gad		
4	MAT-06, LONG-TERM PLANT-GROWING PERFORMANCE OF POROUS CONCRETE WITH VARYING AMOUNTS OF OYSTER SHELL AGGREGATE	LDR-01, COMPARISION OF ALTERNATIVE CONSTRUCTION DISPUTE RESOLUTION MEASURES		
	Itaru Horiguchi and Yoichi Mimura	Ulrike Quapp and Klaus Holschemacher		
5	SUS-02, PIEZOELECTRIC PROPERTIES OF CEMENT PIEZOELECTRIC COMPOSITES CONTAINING NANO-QUARTZ POWDERS	PRO-02, QUALIFICATION-BASED SELECTION OF CONSULTANTS AND CONTRACTORS: BREAKING THE LOWEST TENDER PRICE CULTURE		
	Huang Hsing Pan	Douglas D. Gransberg, Ali Touran, and Eric Scheepbouwer		
	SUS-04, USING CERAMIC WASTES IN CONCRETE MANUFACTURING FOR SUSTAINABLE	CON-05, USE OF INCENTIVE IN CONSTRUCTION: CARROT OR STICK		
6	CONSTRUCTION MATERIALS AS COARSE AGGREGATE REPLACEMENT	Sai On Cheung, Sen Lin, and Tsz Hin Keith Kwan		
	Mohamed Tarek El-Hawary, Amr Maher Elnemr, and Nagy Fouad Hanna			
_	STR-45, A SLOT-CUTTING TECHNIQUE FOR REPAIR AND REHABILIATION OF CONCRETE DAMS AFFECTED BY ALKALI-SILICA REACTION	LDR-03, TROUBLES WITH A WIND FARM PROECT		
7	Mohammad S. Pourbehi and JAvB Strasheim	Keenan Nakagawa and Amarjit Singh		
	Iviolianimau S. Fouldetii anu JAVD Suasneim			
	CSA-01, FALL-DOWN TEST OF COLUMNS WITH LOWER PART CUTTING	CON-06, USING KPI FOR INCENTIVIZATION		
8	Hiroki Takahashi, Seiji Takanashi, Tomohito Hori, Katsutoshi Ohdo, and Yasumichi Hino	Sai On Cheung, Nan Cao, and Wing Sum Alfred Ma		
	Lunch Break: 13:00 - 14:00			





Technical Session II – Tuesday, December 1, 2020, 14:00 - 16:00			
Location: Kahukura Building (Dept. of Engineering and Architectural Studies)			
	Moderator: <i>Vanissorn Vimonsatit</i> Co-Moderator: <i>Yuwei Li</i> IT Staff: <i>Christina Chen</i>	Moderator: <i>Ulrike Quapp</i> Co-Moderator: <i>Ghada Gad</i> IT Staff: <i>Christina Chen</i>	
	V-Room A  https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdEIQMWVOcUVSQT09  PMI: 336-508-2496, Password: 395011	V-Room B <a href="https://us02web.zoom.us/j/3666822714?pwd=UE9wZ1QvcG1FcEsv0EQ3ay9LViswUT09">https://us02web.zoom.us/j/3666822714?pwd=UE9wZ1QvcG1FcEsv0EQ3ay9LViswUT09</a> PMI: 366-682-2714, Password: 142731	
	II-A: Infrastructure and Engineering Design	II-B: Construction and Housing	
1	INF-07, EFFECT OF BASECOURSE AGGREGATE PROPERTIES ON STRENGTH OF FOAMED BITUMEN STABILIZED MATERIALS	CON-23, MACHINE LEARNING APPLICATIONS FOR MONITORING CONSTRUCTION HEALTH AND SAFETY LEGISLATION AND COMPLIANCE	
	Hossein Askarinejad, Anastasiya Naruzberg, and Bryan Pidwerbesky	Mohlomi Terah Raliile and Theodore Conrad Haupt	
2	SUS-06, EXPERIMENTAL VERTIFICATION FOR APPLYING NEUTRAL EQUILIBRIUM MECHANISM AS MULTIPLE VIRTUAL PIERS OF DISASTER RELIEF BRIDGE  Ming-Hsiang Shih, Wen-Pei Sung, Martin Ghienne, Jun-Han Yao, and Florian Beauval	CON-29, REASONS FOR FAILURES IN INSPECTION REPORTS FOR RESIDENTIAL BUILDS  John Tagiilima and Funmilayo Ebun Rotimi	
3	OTH-02, SIMULATION OF VEHICLE PLATOONS PASSING THROUGH INTERSECTION Eisuke Kita, Shuji Hayashi, and Tatsuhiro Tamaki	CPM-08, A BIBLIOMETRIC REVIEW OF TRENDS IN CONSTRUCTION SAFETY TECHNOLOGY RESEARCH  Mariam Akinlolu and Theodore Conrad Haupt	
4	AAW-04, PLANTER BOX RAINGARDEN FOR ZINC REMOVAL FROM STORM WATER  Mohammad Ramezanianpour, Alex Levien, and George Ritchie	CON-11, EXTENDED TRIPLE BOTTOM LINE BASED EVALUATION OF REVERSE LOGISTICS OPTIONS FOR CONSTRUCTION WASTE MATERIAL  Rana Rabnawaz Ahmed and Xueqing Zhang	
5	CPS-02, DEVELOPMENT AND APPLICATION OF GLOBAL-PROCESS TENSION ANALYSIS SOFTWARE FOR SUSPEND-DOME BASED ON ANSYS  Ting Li, Bingqing Liu, Zhongyong Meng, and Shen Zhang	HOS-02, BUBBLE WRAP OR SLIPPERS? THAT IS THE QUESTION: FROM HAMLET TO HOME INSULATION  Kerry Mulligan, Britta Basse, and Daphne Robson	
6	RAD-03, MOVING TO RESILIENCE AND ROBUSTNESS AND IMPLICATIONS FOR ENGINEERING DESIGN  Norbert J. Delatte and Mark Milke	SUS-10, APPLICATION OF GREEN RETROFIT TECHNOLOGY: A SYSTEMATIC REVIEW Achini Weerasinghe, Thanuja Ramachandra, and James Olabode Bamidele Rotimi	
7	ENR-02, RUDDER PROFILES OF POWER-FREE UNDERWATER VEHICLE FOR KUROSHIO POWER GENERATION  Chuan-Tsung Lee, Huang Hsing Pan, Ray-Yeng Yang	CON-18, EFFECTS OF GEOTECHNICAL RISKS ON COST AND SCHEDULE IN INFRASTRUCTURE PROJECTS  Kerim Koc, Asli Pelin Gurgun, and Mehmet Egemen Ozbek	
8	AAW-05, SIMULATION STUDY OF WATER REUSE SYSTEM FOR A REGENERATIVE HOUSEBOAT BY EPANET  Mohammad Ramezanianpour and Sally Kung	CON-31, INSTITUTIONALIZING VIRTUAL REALITY BASED CONSTRUCTION PROFESSIONAL TRAINING Peter S.P. Wong, Abram Hoffman, Sherman C.P. Cheung, and Ron Wakefield	
Tea & Coffee Break 16:00 - 16:30			





Technical Session III – Tuesday, December 1, 2020, 16:30 - 18:00				
Location: Kahukura Building (Dept. of Engineering and Architectural Studies)				
		Moderator: <i>Chao Wu</i> Co-Moderator: <i>Kaveh Andisheh</i> IT Staff: <i>Christina Chen</i> V-Room A		derator: Klaus Holschemacher Noderator: Mohammad Pourbehi IT Staff: Christina Chen V-Room B
		pom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdEIQMWVOcUVSQT09 PMI: 336-508-2496, Password: 395011 -A: Structural and Earthquake Engineering	PMI:	3666822714?pwd=UE9wZ1QvcG1FcEsvOEQ3ay9LViswUT09 366-682-2714, Password: 142731 al Measurements and Numerical Modeling
1	BI-DIRECTIONAL CO	INT AND APPLICATION OF ISOLATION BEARING ELEMENT CONSIDERING UPLED INTERACTION  g Zhang, and Ming Cheng	STR-19, NONPARAMETRIC NO APPROACH USING DYNAMIC F Bin Xu, Ye Zhao, Baichuan L	
2	APPROACHES	SIGN OF MASONRY-INFILLED FRAMES – A REVIEW OF CODIFIED in Derakhshan, Tatheer Zahra, David P Thambiratnam, and Alireza	,	OF RIVETED GIRDERS WITH SPLICE JOINTS – A CASE STUDY akano, Yuya Nakade, Kentaro Matsumoto
3	TESTS HYBRID CLT		HYBRID CLT UNDER OUT-OF-F	EAR ANALOGY AND TIMOSHENKO METHOD FOR ANALYZING PLANE LOADING d Ashraf, Kazem Ghabraie, and Mahbube Subhani
4	STR-21, TORSION EFFECTS IN BUILDING SEISMIC PERFORMANCE  Marija Demsic, Mario Uros, Marta Savor Novak, and Josip Atalic		STR-30, PERFORMANCE OF PI YIELD DAMPER USING UNBON Yuki Shirai and Kazushi Shiri	
5	STR-20, STORY VERTICAL POST-COMPRESSION FOR TIMBER BUILDINGS: A NEW SYSTEM FOR SEISMIC IMPROVEMENT OF CLT WALLS  Alberto Viskovic, Federico Di Lisio, and Piergiorgio Michetti		STRENGTHENED WITH NSM F	LEMENT MODELING OF POST-TENSION RC AND RC BEAMS RP RODS ussein, Ezz El-Deen Mostafa, and Amr Maher Elnemr
6	STR-33, FATIGUE DURABILITY OF INTERSECTIONS BETWEEN LONGITUDINAL AND TRANSVERSE RIBS IN LARGE-SIZED TROUGH RIB OSD  Takahide Hirai, Masahiro Sakano, Shiro Saito		MADE FROM RADIATA PINE	CE OF SELF-TAPPING SCREWS IN CROSS-LAMINATED TIMBER bube Subhani, and Paul Kremer
		Closing Session	on	
18:00 - 18:45  ISEC 11 Announcement Sherine Ahmed El Baradei Social Networking in Breakout Rooms ASEA SEC 6 Announcement Vanissorn Vimonsatit Best Presentation Awards			V-Room A  https://us02web.zoom.us/i/3365082496?pwd=MWh4WjhPbFZ oS2RTdEIQMWVOcUVSQT09  PMI: 336-508-2496, Password: 395011	





Tuesday – December 1, 2020		
19:00 - 20:30	Dinner Banquet	Meet at K-block foyer (for onsite participants)

Wednesday – December 2, 2020		
09:00 - 12:00 (15-minute break at half-time)	Dispute Resolution Workshop  Dr. Yiannis Vacanas, Cyprus University of Technology  Title: Risk of Delay in Construction Projects	V-Room A  https://us02web.zoom.us/j/3365082496?pwd=MWh4W jhPbFZoS2RTdEIQMWVOcUVSQT09  PMI: 336-508-2496, Password: 395011
09:00 - 12:00 (15-minute break at half-time)	Seismic Engineering Workshop  Dr. Najif Ismail, Seismic Solutions Limited  Title: Design of Seismic Strengthening Schemes for Existing Masonry Buildings: A Consulting Engineer's Approach	V-Room B  https://us02web.zoom.us/j/3666822714?pwd=UE9wZ1 QvcG1FcEsv0EQ3ay9LViswUT09 PMI: 366-682-2714, Password: 142731
09:00 - 11:30	Technical Tour – CANCELED	
14:00 - 18:00	Cultural Tour 1 – CANCELED	

Thursday – December 3, 2020		
09:00 - 16:00	Cultural Tour 2 – CANCELED	





#### **List of Speakers in Alphabetical Order by First Name**

A - H H - M M - Z

Participant	<b>Technical Session</b>
Achini Weerasinghe	II-B
Alberto Viskovic	III-A
Amarjit Singh	I-B
Amr Maher Elnemr	I-A, III-B
Asli Pelin Gurgun	II-B
Bin Xu	III-B
Breda (JAvB) Strasheim	I-A
Britta Basse	II-B
Chuan-Tsung Lee	II-A
Dana Dardoon	I-B
Daniel van der Walt	I-B
Daphne Robson	II-B
Dennis Messerer	I-A
Eisuke Kita	II-A
Eric Scheepbouwer	I-B
Funmilayo Ebun Rotimi	II-B
Ghada Gad	I-B
Hiroki Takahashi	I-A
Hossein Askarinejad	II-A

Participant	<b>Technical Session</b>
Huang Hsing Pan	I-A, II-A
Itaru Horiguchi	I-A
John Tagiilima	II-B
Kazushi Shimazaki	III-B
Keenan Nakagawa	I-B
Keita Sugimoto	I-A
Kerim Koc	II-B
Kerry Mulligan	II-B
Klaus Holschemacher	I-A
Mariam Akinlolu	II-B
Marija Demsic	III-A
Mario Uros	III-A
Mark Milke	II-A
Marta Savor Novak	III-A
Masahiro Sakano	III-A, III-B
Md Tanvir Rahman	III-B
Mehmet Ozbek	II-B
Mohamed Tarek El-Hawary	I-A
Mohammad Ramezanianpour	II-A

Participant	Technical Session
Mohammad S. Pourbehi	I-A
Mohlomi Terah Raliile	II-B
Nan Cao	I-B
Paul Stephanus Botha	I-B
Peter S.P. Wong	II-B
Ramin Asadi	I-B
Rana Rabnawaz Ahmed	II-B
Sai On Cheung	I-B
Sen Lin	I-B
Shen Zhang	II-A, III-A
Sonam Dorji	III-A
Theodore Conrad Haupt	II-B
Ting Li	II-A
Ulrike Quapp	I-B
Valentina Villa	III-A
Wen-Pei Sung	II-A
Xin Li	III-B
Xueqing Zhang	II-B
Yuki Shirai	III-B