



EURO-MED-SEC-2 Responsible Design and Delivery of the Constructed Project
The Second European and Mediterranean Structural Engineering and Construction Conference

Tuesday — July 24, 2018

9:00-9:45	Opening Statements and Welcome Ceremony — Maamari Auditorium
9:00-9:30	Conference Chair ISEC President MSFEA Dean AUB Provost
9:30-9:45	Welcome Activity
9:45-10:30	Keynote Address
	SIMULATION-BASED ANALYTICS: ADVANCING DECISION SUPPORT IN CONSTRUCTION Simaan Abourizk
10:30-11:00	Coffee Break — Bechtel Building Lounge
11:00-12:30	Presentations — Sessions A1, B1, and C1 (Bechtel Building)
	SESSION A1 — Conference Room 437 (Moderator: Eng. Syed Faiz Ahmad) Structural Engineering Education and Design Analysis and Management
11:00-11:15	REFORMING UNDERGRADUATE STRUCTURAL ENGINEERING EDUCATION: A LEAP OF FAITH Ezzeldin Sayed-Ahmed
11:15-11:30	MANAGING DESIGN PROJECTS: METHODS AND POSSIBLE IMPROVEMENTS USING BIM Hisham Abou-Ibrahim, Farook Hamzeh
11:30-11:45	YIELD STRESS BASED ON NATURAL STRAIN THEORY UNDER CYCLIC SHEAR LOAD AFTER LARGE SIMPLE SHEAR Yasuyuki Kato
11:45-12:00	NONLINEAR FINITE ELEMENT ANALYSIS OF TRANSVERSELY PRESTRESSED CONCRETE DECK SLABS Sana Amir, Cor van der Veen, Ane de Boer
12:00-12:15	CASE STUDY OF SEISMIC EVALUATION AND STRENGTHENING OF EXISTING LOW-RISE REINFORCED CONCRETE BUILDING Amthal Hakim, Adnan Al Masri
12:15-12:30	THE EFFECT OF IMPACT LOADS ON PRESTRESSED CONCRETE SLABS Youmn Al Rawi, Yehya Temsah, Hassan Ghanem, Ali Jahami, Mohamad Elani



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SESSION B1 — Conference Room 535 (Moderator: Dr. Issam Srour)
Innovative Architectural Solutions and Engineering Resources and Knowledge

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| 11:00-11:15 | DESIGNING RESILIENT ROOF SYSTEMS
Thomas W. Hutchinson |
| 11:15-11:30 | THE ELEMENTS OF NATURAL CONCEPT IN SUSTAINABLE BUILDING SKINS
Taher Salah, Omnia Mohamed, Akram Azmy |
| 11:30-11:45 | ARCHITECTURAL ENGINEERING IN REHABILITATION AT SOCIAL HOUSING QUARTERS
Vitor Abrantes, Nuno Abrantes, Fernando Brandão Alves |
| 11:45-12:00 | HUMAN RESOURCE ALLOCATION IN ENGINEERING DESIGN COMPANIES
Ruba Rizk, Issam Srour |
| 12:00-12:15 | DIVERSITY AND KNOWLEDGE SHARING IN CONSTRUCTION: A MATHEMATICAL MODEL
Daoud Kiomjian, Faith Jordan Srour, Issam Srour |
| 12:15-12:30 | THE IMPACT OF THE CONSTRUCTION COMPUTING SOFTWARE (CCS) 'CANDY' COURSE: CONSTRUCTION MANAGEMENT STUDENTS' PERCEPTIONS
John Smallwood, Chris Allen |

SESSION C1 — Conference Room 537 (Moderator: Dr. Hiam Khoury)
Evaluation, Prioritization, and Delivery of Capital Projects

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| 11:00-11:30 | RESPONSIBLE DELIVERY OF THE BUILT PROJECT: WHOSE RESPONSIBILITY IS IT?
Mayssa Kalach, Mohamed-Asem Abdul-Malak, Issam Srour |
| 11:30-11:45 | THE COST IMPACT OF FRONT END ENGINEERING DESIGN (FEED) ACCURACY FOR LARGE INDUSTRIAL PROJECTS
Mounir El Asmar, G. Edward Gibson, Jr. |
| 11:45-12:00 | A SYSTEMS-OF-SYSTEMS FRAMEWORK FOR PUBLIC-PRIVATE PARTNERSHIP PROJECTS
Rana Khallaf, Makarand Hastak |
| 12:00-12:15 | MULTI-METHOD MODEL FOR INFRASTRUCTURE PORTFOLIO MANAGEMENT
Gregory J. Fitch, Ibrahim Odeh, Frederick Kautz |
| 12:15-12:30 | EVALUATING PPP PROJECTS USING A LEAN FRAMEWORK
Zeina Malaeb, Farook Hamzeh |



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12:30-14:00	Conference Lunch — IOEC 6th Floor Lounge
14:00-15:15	Presentations — Sessions A2, B2, and C2 (Bechtel Building)
	SESSION A2 — Conference Room 437 Moderator: Dr. Ezzeldin Sayed-Ahmed) Experimental Research and Improved Designs in Structural Engineering
14:00-14:15	THE EFFECT OF SHEAR REINFORCEMENT RATIO ON PRESTRESSED CONCRETE BEAMS SUBJECTED TO IMPACT LOAD Mohamad Elani, Yehya Temsah, Hassan Ghanem, Ali Jahami, Youmn Al Rawi
14:15-14:30	RAPID LOAD TESTING OF STONE COLUMNS TO AID DESIGN OF FOUNDATIONS ON IMPROVED GROUND John Fahd Touma, Salah Sadek, Shadi Najjar
14:30-14:45	STRUCTURAL HEALTH MONITORING OF CORROSION POTENTIAL IN CONCRETE BRIDGE DECKS Hani Nassif, Chaekuk Na, Hasan Al-Nawadi, Adi Abu-Obeidah, William Wilson
14:45-15:00	AN EFFECTIVE TECHNIQUE UTILIZING FRCM SYSTEM IN STRENGTHENING RC BEAMS IN SHEAR Tadesse Wakjira, Usama Ebead
15:00-15:15	EFFECTIVENESS OF FRCM SYSTEM IN STRENGTHENING OF RC BEAMS IN SHEAR USING HYBRID NSE/EB TECHNIQUE Usama Ebead, Tadesse Wakjira
	SESSION B2 — Conference Room 535 (Moderator: Dr. Ghassan Chehab) Environmental, Safety, and Accessibility Compliance and Issues
14:00-14:15	INVESTIGATING THE CIRCULAR ECONOMY AS A SOLUTION FOR CONSTRUCTION WASTE: CHALLENGES AND OPPORTUNITIES Lucien El Asmar, Namho Cho, Mounir El Asmar
14:15-14:30	AN INVESTIGATION INTO CRANE AND SCAFFOLD SAFETY IN CONSTRUCTION INDUSTRY Swapan Saha, Ben Cauchi, Grahame Douglas
14:30-14:45	IMPACT OF COVERING IRRIGATION CANALS ON EVAPORATION RATES IN ARID AREAS Sherine El Baradei, Mai Alsadeq



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14:45-15:00	PRIORITIZING SIDEWALK UPGRADE PROJECTS TO MAXIMIZE COMPLIANCE WITH ACCESSIBILITY REQUIREMENTS Ayman Halabya, Khaled El-Rayes
15:00-15:15	THE IMPACT OF POSTS ON INTEREST IN A DEPARTMENT OF CONSTRUCTION MANAGEMENT FACEBOOK PAGE John Julian Smallwood
SESSION C2 — Conference Room 537 (Moderator: Dr. Rita Awwad) Project Controls and Contract Administration Mechanisms	
14:00-14:15	RESEARCH TRENDS IN EVM LIMITATIONS AND PROPOSED IMPROVEMENTS Farah Demachkieh, Mohamed-Asem Abdul-Malak
14:15-14:30	CROWD-SOURCED VISUAL DATA COLLECTION FOR MONITORING INDOOR CONSTRUCTION IN 3D Fouad Amer, Mani Golparvar-Fard
14:30-14:45	INFORMATION MANAGEMENT TECHNOLOGIES FOR IMPROVING EARNED VALUE QUANTIFICATION Farah Demachkieh, Mohamed-Asem Abdul-Malak
14:45-15:00	INVESTIGATING SITE-RELATED NOTICES IN CONSTRUCTION CONTRACTS Salam Khalife, Mohamed-Asem Abdul-Malak
15:00-15:15	ALTERNATIVE MEDIATION OPERABILITY MECHANISMS UNDER STANDARD CONSTRUCTION CONTRACT CONDITIONS Mohammad Barakat, Mohamed-Asem Abdul-Malak, Hiam Khoury
15:15-15:45	Coffee Break — Bechtel Building Lounge
15:45-17:00	Presentations — Sessions A3, B3, and C3 (Bechtel Building)



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SESSION A3 — Conference Room 437 (Moderator: Dr. Hani Nassif)
The Use of Fillers and Special techniques for Improving Concrete Behavior

- 15:45-16:00 EFFECT OF GRADATION AND REPLACEMENT LEVEL ON ALKALI-SILICA REACTIVITY OF MINERAL FILLERS
Noura Sinno, Medhat Shehata
- 16:00-16:15 CONSTRUCTABILITY STUDY OF ASPHALT PAVEMENTS INCORPORATING SHALLOW GEOTHERMAL ENERGY
Ali Zalgout, Nooralhuda Saleh, Samir Sari Ad Din, Ghassan Chehab
- 16:15-16:30 GLASS FIBER POLYMER ON THE FRESH AND HARDENED PROPERTIES OF CONCRETE
Mohammed Jobaer Uddin, Ariful Hasnat, Mohammad S. Islam, Syed F. Ahmad
- 16:30-16:45 USE OF RECYCLED GLASS IN CONCRETE PRODUCTION
Daniela Ionescu, Andrew Kilpatrick, Joe Petrolito
- 16:45-17:00 EXPERIMENTAL EVALUATION OF THE FLEXURAL BEHAVIOR OF CONCRETE BEAMS REINFORCED WITH STIFF BIAXIAL GEOGRID
Zaher Al Basiouni Al Masri, Rana Haj Chhade, Ghassan Chehab

SESSION B3 — Conference Room 535 (Moderator: Dr. Farook Hamzeh)
Construction Scheduling and Delay Anticipation and Mitigation

- 15:45-16:00 FAST-PACED CONSTRUCTION OF THE NEW KHALIFA PORT BRIDGE PROJECT
Antoine Gergess
- 16:00-16:15 ON MODELING ACTIVITY CRASHING AND OVERLAPPING: A FIRST ALGORITHM
Kamel Elamrousy, Pablo Ballesteros-Pérez
- 16:15-16:30 MEDIATION TACTICS AND EFFECTIVENESS IN DISPUTE RESOLUTION
Mohammad Hasan Senan, Nadine Alzaghri, Issam Srour
- 16:30-16:45 DELAY IN CONSTRUCTION INDUSTRY: CAUSES, EFFECTS AND MITIGATION MEASURES
Yiannis Vacanas, Chris Danezis
- 16:45-17:00 ON THE LIMITATIONS OF THE EARNED VALUE MANAGEMENT TECHNIQUE TO ANTICIPATE PROJECT DELAYS
Pablo Ballesteros-Pérez, Kamel Mohamed Elamrousy



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SESSION C3 — Conference Room 537 (Moderator: Dr. Mounir El Asmar)
Legal Issues and Resolution of Claims and Disputes

15:45-16:00	THE HAWAII SUPERFERRY BUSINESS VENTURE NAVIGATES TO FAILURE Rocco Tramantano, Amarjit Singh
16:00-16:15	INFLUENCE OF COLLABORATIVE BEHAVIOR ON CLAIM NEGOTIATION Rita Awwad, Stephanie Atallah, Carol Menassa
16:15-16:30	EVALUATION OF SIMULATION TECHNIQUES FOR MODELING PROGRESSION OF CONSTRUCTION CLAIMS Mohammad Barakat, Hiam Khoury, Mohamed-Asem Abdul-Malak
16:30-16:45	ADMINISTERING CONDITION PRECEDENT NOTICES IN CONSTRUCTION CONTRACTS Salam Khalife, Mohamed-Asem Abdul-Malak
16:45-17:00	ADMINISTRATING THE CONSTRUCTION CONTRACT "OR" MANAGING THE RELATIONSHIP? Mohamed-Asem Abdul-Malak
17:00-17:30	Closing Statements and Appreciation Souvenirs — Conference Room 537