

About the Conference

GENERAL

The 6th International Engineering and Construction Conference (IECC'6) is a multidisciplinary forum with several symposia covering a wide range of engineering areas with emphasis on engineering design and construction. The goal of this conference is to enhance the lines of communication between researchers and technical professionals to exchange innovative research and technological advancements. This year's conference theme focuses on two major challenges: affordable housing and adoption of green building approach. This theme incorporates innovative building systems in which affordable sustainable construction is pronounced. The conference will cover most of the subjects associated with the above mentioned vision.

CONFERENCE OBJECTIVES

The objective of the conference is to focus on various topics related to affordable housing which incorporates innovative building systems. Those systems would combine the benefits of affordability, green construction and sustainability. The previous objectives cannot be separated from the wider objectives of eco-villages , city planning, and green construction management on the community level. This would also require successful sustainability and energy efficiency code development. The conference will also deal with carbon finance in construction, renewable energy in construction, environmentally compatible engineering in design and construction, assessment and monitoring of long-term performance, recyclable construction materials and systems, and other state-of-the art papers related to built environment and energy conservation are also encouraged.

VENUE

The conference is held at the Housing & Building National Research Center (HBRC) of Egypt located in the beautiful Cairo Metropolitan area.

SCIENTIFIC COMMITTEE

Dr. Abdel Mageed, H. (Egypt)	Mr. Hegab, M. (USA)
Prof. Abdel Wahab, M. (Egypt)	Prof. Hosny, A. (Egypt)
Prof. AbdEl-Naby, S. (Egypt)	Prof. Hui, D. (USA)
Dr. Abo Shadi, N. (USA)	Prof. Husem, M. (Turkey)
Prof. Abu-Zeid, A. (Egypt)	Prof. Kahya, V. (Turkey)
Prof. Abu-Zeid, M. (Egypt)	Dr. Khorshid, M. (Egypt)
Prof. Adanur, S. (Turkey)	Prof. Kordy, A. (Egypt)
Prof. Alebiary, S. (Egypt)	Prof. Lau, A. (China)
Mr. Aljanabi, I. (UAE)	Dr. Liu, F. (USA)
Prof. Almusallam, T. (Saudi Arabia)	Dr. Miraj, R. (USA)
Prof. Alsalloum, Y. (Saudi Arabia)	Prof. Montgomery, U. (USA)
Prof. Bahnasawy, H. (Egypt)	Prof. Mourad, S. (Egypt)
Prof. El-Batran, M. (Egypt)	Dr. Nelson, D. (USA)
Prof. El-Degwy, W. (Egypt)	Dr. Nour, K. (USA)
Prof. El-Kassas, M. (Egypt)	Dr. Oey, M. (USA)
Prof. El-Mosly, H. (Egypt)	Prof. Perslow, J. (USA)
Prof. El-Sayed, S. (Saudi Arabia)	Prof. Pul, S. (Turkey)
Dr. El-Sherif, D. (Egypt)	Prof. Rageh, A. (Egypt)
Prof. El-Zahaby, K. (Egypt)	Prof. Reda, M. (Egypt)
Dr. Etman, M. (Egypt)	Prof. Salaheldin, O. (Egypt)

Dr. Fanny, M. (Egypt) Dr. Felix Wu, H. (USA) Prof. Feng, M. (USA) Prof. Feo, L. (Italy) Dr. Franchetti, P. (Italy) Prof. Ghavami, K. (Brazil) Prof. Gumusel, L. (Turkey) Mr. Hancuff, T. (USA) Prof. Hanna, G. (Egypt) Prof. Haroun, M. (USA)	Prof. Salama, A. E. (Egypt) Dr. Shebl, S. (Egypt) Prof. Shinozuka, M. (USA) Prof. Taha, M. (USA) Prof. Tamuzs, V. (Latvia) Prof. Teng, J-G (China) Prof. Tolba, M. (Egypt) Dr. Ushakov, A. (Russia) Prof. Walker, P. (UK) Mr. Warner, C. (USA) Dr. Zaki, M. (Egypt)
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SCIENTIFIC TECHNICAL SECRETARIAT

Dr. Diaa, Ghada
Mrs. Magdy, Rasha
Ms. Nayil, Mariam

INTERNATIONAL PRACTICE COMMITTEE

Mr. Abbasi, S. (USA) Mr. El-haytami, M. (Egypt) Mr. Hadrian, R. (USA)	Dr. Kuo, R. (USA/China) Mr. Kurniadi, E. (Indonesia) Eng. Mehlab, I. (Egypt)
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INTERNATIONAL ORGANIZING COMITTEE

Dr. Bathala, C. T., P.E., Ph.D., F. ASCE (USA), ASCE International Committee, California Department of Transportation.
Prof. Soliman, M. , M. ASCE, (Egypt), ASCE Egypt Chapter.
Eng. Nasser, S. Y., P.E., LEED, A.P., M.ASCE (USA), Bryan A. Stirrat & Associates, a Tetra Tech Company, California

HBRC ORGANIZING COMMITTEE

Prof. Abdel-Salam, M.N., Prof. Allam, H. Dr. Bahaa, T. Prof. El-Batran, Mr. El-Sayed, M. Dr. El-Sokkary, T. Mr. El-Tony, B. Prof. El-Zahaby, K.	Mrs. El-Okaily, L. Dr. Hassan, A. Prof. Nofal, N. Dr. Khalil, M. Dr. Khafaga, M. Prof. Sayed, H. Prof. Yosri, K. Dr. Zaki, M.
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ORGANIZING TECHNICAL SECRETARIAT

Eng. Elsirsy, Nahla
Eng. Mourad , Nahla

Sunday – June 27, 2010

1:00 PM – 5:00 PM

Early Registration

Day 1 – Monday – June 28, 2010

9:00 AM – 9:45 AM

Registration

10:00 AM – 10:45 AM

Plenary Session

Inaugural Address:	Prof. Dr. Ayman Mosallam
Welcome ASCE Los Angeles Section:	Dr. C.T. Bathala
Welcome ASCE Headquarters:	ASCE President-Elect Mrs. Kathy Kadwell
Welcome HBRC:	Prof. Dr. Mostafa El Demirdash, Chairman
Welcome Ministry of Social Solidarity:	H.E. Dr. Ali El-Sayed Al-Moselhi
Welcome Ministry of Housing, Utilities & Urban Development:	H.E. Eng. Ahmed Amin El-Maghraby

10:45 AM – 11:30 AM

Coffee Break

11:30 AM – 12:30 PM

Keynote Lectures – Midday Session

Moderators:	<i>Prof. Dr. Amr Ezzat Salama and Dr. C.T. Bathala</i>	<i>AUC/ASCE</i>	<i>Egypt/USA</i>
Speaker 1:	ASCE President-Elect Mrs. Kathy Kadwell	ASCE	USA
Speaker 2:	Eng. Hussein Abaza	for Green Building Council	Egypt

12:30 PM – 1:30 PM

Midday Session

Session I-A: Affordable Housing and Alternative Construction Techniques

Room: 1

Moderators: *Prof. Abu Zeid Rageh., Prof. Ayman Mosallam, Mr Joban Perslow*

I-A-1	Alternative Building Technology to Forecast Project Duration In Construction Projects	V.S.S. Kumar., and Rakesh, Ch., and Prakash, D	India
I-A-2	Selecting Building Materials Using System Dynamics	Mohamed Marzouk; Manal Abdelhamid; and Mohamed Elsheikh	Egypt
I-A-3	Detailing, Manufacturing, and Construction of Low-Cost Precast Concrete Housing System	Riyad Aboutaha , Ossama Salem	USA
I-A-4	Serander: A Nature-Friendly Building in Eastern Black Sea Region of Turkey	Selda Al, Nimet Candas Kahya, Derya Elmali Sen, Ayse Sagsoz Karadeniz	Turkey

Day 1 – Monday – June 28, 2010

12:30 PM – 1:30 PM

Midday Session (continued)

Session II-A: Advances in Sustainable Building Materials

Room: 2

Moderators: *Prof. Farouk El-Hakeem, Prof. Samir Okba, Prof. Sherif Fakbry*

II-A-1	A Sustainable Binder for Building Materials from Biological Sources	Abhijit Mukherjee	India
II-A-2	Assessment of Autoclaved Aerated Concrete Samples Incorporated With Cement Kiln Dust Within the Raw Mix Materials	T. M. El-Sokkary, A. Tawfik, and S. A. S. El-Hemaly	Egypt
II-A-3	Connector Stiffness of Profiled Steel Sheet Dry Board (PSSDB) System	Hanizam Awang, Taksiah A. Majid	Malaysia
II-A-4	Green Building Material Requirements and Selection (Case Study on HBRC Building In Egypt)	Hebatalrahman, A, M. Mahmoud	Egypt

12:30 PM – 1:30 PM

Midday Session (continued)

Session III: Green Building Code Development

Room: 3

Moderators: *Prof. Heba Babnasany, Prof. Manal El-Batran, Prof. Doaa El-Sherif*

III-1	A Comparison Between Different International Codes for the Design of Slender Steel Columns	Ehab B. Matar	Egypt
III-2	Evaluation of Intelligent Codes in Sustainable Design	N. Nawari	USA
III-3	Software For Automated Designing Of Composite Ramps For The Physically Challenged People	A.A. Safonov and S.N. Ozerov	Russia
III-4	The Impact Assessment of Climate Change on Rural Buildings In China	Wang YuanFeng, Zhou Feng, Han Bing, Liu Minghui	China

12:30 PM – 1:30 PM

Midday Session (continued)

Session IV: Eco-Villages and Cities

Room: 4

Moderators: *Prof. Sayed Madbouly, Prof. Magda Metwally, Prof. Zakia Shafeii*

IV-1	Building Green Houses in Desert Fringe Villages West of Aswan Governorate	Kamal Mohamed Hafez Ismail	Egypt
IV-2	Effective Planning of Productive Low-Cost Environmentally Friendly Villages In the Egyptian Desert	Manal El-Batran, Michael Zaretsky and Hazem Elzarka	Egypt
IV-3	Feasibility of Straw-Bale As a Building Material for the Construction of Productive Low-Cost Environmentally Friendly Villages In the Egyptian Desert	Sean McIntosh and Hazem Elzarka	Egypt
IV-4	Eco-Communities, sustainable development & ownership	Ulysses J. Montgomery , A Mosallam, R. Miraj	USA

1:30 PM – 2:30 PM

Lunch & Exhibitions

Day 1 – Monday – June 28, 2010

2:30 PM – 3:30 PM

Keynote Lectures – Midday Session

Moderators: *Prof. Abdel-Hady Hosny, Prof. Medhat Haroun*
 Speaker 1: Prof. Dr. Ayman Mosallam University of California, Irvine USA
 Speaker 2: Dr. Andrey Ushakov Apatech Russia

3:30 PM – 4:45 PM

Afternoon Session

Session I-B: Affordable Housing and Alternative Construction Techniques

Room: 1
 Moderators: *Prof. Wael El-Degny., Prof. Ahmed Rashed, Prof. Hatem Gheith*

	Main SPONSOR PRESENTATION (20 min)	RAMSCO	Egypt
	Sponsor Presentation	Block Industrial (Contact Group)	Egypt
I-B-1	Enhancing the Balance of Thermal Mass and Insulation on Quincha; Conclusions of a Practical Experience Towards Heritage Reconstruction	Samuel Bravo Silva	USA
I-B-2	Goz Dolma and Muskali: Traditional Construction Techniques	Nimet Candas Kahya , Selda Al , Reyhan Midilli Sari , Ayse Sagsoz	Turkey
I-B-3	Modeling Ready Mixed Concrete Supply in Low-Income Housing Projects using System Dynamics	Mohamed Marzouk; Ahmed Hamdy; and Moheeb El-Said	Egypt

3:30 PM – 4:45 PM

Afternoon Session (continued)

Session II-B: Advances in Sustainable Building Materials

Room: 2
 Moderators: *Prof. Abdallah Abuzeid, Prof. Khalid. Yousri, Prof. Abdel-Kader El-Fouly*

	Sponsor Presentation	Insutech (Contact Group)	Egypt
II-B-1	High Strength Concrete Employing Limestone Powder as a Partial Cement Replacement	Alaa M. Rashad and Hosam.El_Din H. Seleem	Egypt
II-B-2	Seismic Performance of Gravity Quay Walls In Improved Soils	Heba Kamal, Mona Eid and Amira Abdel Rahman	Egypt
II-B-3	Preparation and Characterization of Mg-Ti-Al-O Ceramic Coating on Plain Carbon Steel for Improving Corrosion Resistance	Zhou Xun, Wang Xiaojing, Wei Lianqi, Liu Peng, Li Qingchun, Ye Shufeng, Chen Yunfa	China
II-B-4	Full-Scale Experimental and Numerical Analysis of Instrumented Helical Screw Piles Under Axial and Lateral Monotonic and Cyclic Loadings – A Promising Solution for Seismic Retrofitting	Yasser Abdelghany & Hesham El Naggar	Canada

Day 1 – Monday – June 28, 2010

3:30 PM – 4:45 PM

Afternoon Session (continued)

Session V-A: Energy-Sustainable Constructed Facilities and Methodologies

Room: 3

Moderators: *Prof. Salab Abu-Elenin, Prof. George Hanna, Prof. Azza Serry*

V-A-1	A Design Strategy of Minimizing Embodied Energy and Cooling Energy for Affordable Building System	Mona Fanny, Ayman Mosallam	Egypt
V-A-2	Design of House(S) With Self Sustained Optimal Temperature Control	Habeebur Rahman R S, Bopayya B B	India
V-A-3	Eco Green Roofs: A Catalyst for a Cleaner Environment	Dr. Khaled Mohamed Dewidar	Egypt
V-A-4	Energy- Cost - Trade Off in Building Design Using Lifecycle Optimization and Simulation	Hossam El-Farra, Ossama Hosny, and Ahmed Elhakeem	Egypt

3:30 PM – 4:45 PM

Afternoon Session (continued)

Session VI-A: Green Construction, Management, Ethics and Practice

Room: 4

Moderators: *Prof. Amira Abdel-Rahman, Prof. Nadia Nofa, Prof. Tarek Hegazy*

VI-A-1	Engineering Integrity: Ethics for the Engineer of 2025	Eric Walker	USA
VI-A-2	Ethical Considerations In Engineering Practice	Alexander Nikolic, Angelo Fasano, Jim Cook, John Legge and Matthew Chartier	UK
VI-A-3	Evaluation of Large Scale Housing Projects In Terms of their Compatibility to Criteria of Environmental Design	Yasser Aref , Tasneem M. Khalil	Egypt
VI-A-4	How Steel Can Contribute to Green Building Design and Maintenance	Ghada M. El-Mahdy., Mohamed A. Zaki	Egypt
VI-A-5	Design intentions Located in : Sannuresse, Tameyah, Fayoum Oasis –EGYPT.	Ahmed Hamid	Egypt

End of Day 1

9:00 AM – 9:45 AM

Registration

9:00 AM – 10:00 AM

Keynote Lectures – Morning Session

Moderators: *Prof. Ali Abdel-Rahman, Mrs. Kathy Kadwell*
 Speaker 1: Eng. Ibrahim Mehleb Arab-Contractors
 Speaker 2: Prof. Dr. Alan Lau Hong Kong Polytechnic University

10:00 AM – 11:00 AM

Mid-Morning Session

Session II-C: Advances in Sustainable Building Materials

(session continued from the previous day)

Room: 1
 Moderators: *Prof. Mahmoud Reda, Prof. Hamdy Abdel-Aziz, Prof. Suzan Saad*

II-C-1	Cargotecture ; Recycled Shipping Containers for Efficient, Flexible Housing	Ebtissam Mohamed Farid Moustapha	Egypt
II-C-2	Use of Sand With Fatty Acid Distillation Residuals for Embankments Construction	Hisham Hafez, Mohie ElMashad, Nasser Radwan	Egypt
II-C-3	Utilizing Geofoam Behind Multi-Storey Basement Walls	Mostafa E. Mossaad , Gihan E. Abdelrahman, Ahmed F. Elragi , and Maysoon A. Ahmed	Egypt
II-C-4	Innovations In Green Building Technology Using Bamboo: A Thermal Perspective Of Bamboo Concrete Composite And Bamboo Penthouse	Anurag Kandya, Chaaruchandra Korde, Sanjeev Singh and Sudhakar Puttagunta	India

10:00 AM – 11:00 AM

Mid-Morning Session (continued)

Session V-B: Energy-Sustainable Constructed Facilities and Methodologies

(session continued from the previous day)

Room: 2
 Moderators: *Prof. Mohamed El Kassas, Prof. Essam Khalil, Prof. Mona Fanny*

V-B-1	Green Concrete Structures by Replacing Cement with Pozzolanic Materials to Reduce Greenhouse Gas Emissions for Sustainable Environment	N.M. Altwair and Shahid Kabir	Malaysia
V-B-2	Sustainable Construction: A Conceptual Framework for Transforming Policy Into Project Level Practice	Sachie Gunatilake and Champika Liyanage	United Kingdom
V-B-3	Sustainable Criteria for Design of Buildings: An Innovative Case-Study of High Efficiency Building In Italy	Paolo Franchetti, Pier Giorgio Cesaratto, Massimiliano Scarpa, Luca Cecchinato, Michele Frizzarin, Roberto Zecchin	France
V-B-4	Traces of Ecological Design In Vernacular Architecture: the Traditional House of Eastern Black Sea Region	Derya Elmalı Şen , Reyhan Midilli Sarı , Süleyman Özgen , Ayse Sagsöz	Turkey

10:00 AM – 11:00 AM Mid-Morning Session (continued)

Session VI-B: Green Construction, Management, Ethics and Practice

(session continued from the previous day)

Room: 3

Moderators: *Prof. Adel El-Samadony, Prof. Mobeeb El-Saeed, Prof. Mohamed Marzouk*

VI-B-1	Management of Sustainable Projects: tools and Approaches	Ihab M. H. Saad	USA
VI-B-2	Managing Risk In Sustainable Projects	Ihab M. H. Saad	USA
VI-B-3	Visual Asset Management System for Capital Renewal of Buildings Considering Sustainability Aspects	Tarek Hegazy	Canada
VI-B-4	Promoting Green Construction In Egypt: A Lifecycle Cost Optimization Approach	Minass Assaad, Ossama Hosny and Ahmed Elhakeem	Egypt

10:00 AM – 11:00 AM Mid-Morning Session (continued)

Session VII-A: Bamboo Design, Application and Innovation

Room: 4

Moderators: *Prof. Omar El-Nawany, Prof. Shadia El Ebiary, Prof. Ahmed Ragab*

VII-A-1	Bamboo Concrete Parabolic Tied Arches Under Short Term Dead Load Test	Korde Chaaruchandra and Sudhakar Puttagunta	India
VII-A-2	Bamboo: Green Materials, Buildings and Life Styles	Puttagunta Sudhakar, Korde Chaaruchandra and Anurag Kandya	India
VII-A-3	Experimental Study of Bamboo Column Under Static Axial Loading Conditions	Supratic Gupta, Korde Chaaruchandra, Amit Agarwal and P. Sudhakar	India
VII-A-4	Experimental Study of Laterally Restrained Bamboo Concrete Composite Parabolic Arch Under Uniformly Distributed Loading	Ashok Gupta, Korde Chaaruchandra and Sudhakar Puttagunta	India

11:00 AM – 11:30 AM Coffee Break

11:30 PM –12:30 PM Keynote Lectures – Midday Session

Moderators: *Prof. Moustafa El-Demirdash, Prof. Ayman Mosallam*

Speaker 1: Prof. Dr. Khosrow Ghavami Catholic University Brazil

Speaker 2: Prof. Dr. Amr Ezzat Salama American University Cairo Egypt

Day 2 – Tuesday – June 29, 2010

12:30 PM – 1:30 PM

Midday Session

Session VII-B: Bamboo Design, Application and Innovation

(session continued from morning)

Room: 4

Moderators: *Prof. Khosrow Gavami, Prof. Hossam Hodhod, , Prof. Adel Amin*

VII-B-1	Fabrication and Testing of Various Configurations of Engineered Bamboo Structural Elements for Deployment As Columns and Beams	Sanjay Kumar, S Ramesh Sakthivel, V M Chariar and P Sudhakar	India
VII-B-2	Is Bamboo a Favorite Construction Material for Civil Engineers?	Ramancharla Pradeep Kumar	India
VII-B-3	Mechanical Properties of Glue Laminated Bamboo Sheets	Yang, Ruizhen; Xiao, Yan; and She, Liyong	China
VII-B-4	Modern Infill Jointing Techniques In Bamboo Constructions	Bajoria K.M., Jain P. and Lahoti A.	India

12:30 PM – 1:30 PM

Midday Session

Session VIII: Nano Technology for Sustainable Construction

Room: 1

Moderators: *Prof. A. Lau, Prof. Ayman Mosallam, Prof. Heba Babnasany*

VIII-1	Functionalization of Thermal Properties of Composite/Nanocomposite Materials	Mohamed S. Aly-Hassan	Egypt
VIII-2	Mechanical Properties of Epoxy/Carbon Nanotubes Composites for Strengthening Concrete and Masonry Structures	M. A. Etman, A S. Mosallam	Egypt
VIII-3	Development Of A Hybrid Cnts/Epoxy Coating For Enhancing Optical & Solar Properties Of Green Buildings Applications	M. A. Etman, M. Fanny, A. S. Mosallam, M. EL-Demirdash, K. Bedewi	Egypt
	Main Sponsor Presentation (20 Min)	Emaar Misr	Egypt

12:30 PM – 1:30 PM

Midday Session (continued)

Session IX-A: Computational Methods in Sustainable Construction

Room: 2

Moderators: *Prof. Hamdy Mobsen , Prof. Sherif Mourad, Prof. Adel El-Attar*

IX-A-1	A Numerical tool for Estimating the Remaining Fatigue Life of Steel Structures Including Environmental Effects	I. M. El Aghoury, K. Galal	Canada
IX-A-2	Compensating Time Delay Effect In the Active Controlled Structures Using Neural Networks	S. AbdelSalam , H. Osman, A. Eraky , M. Galal	Egypt
IX-A-3	Field Test and Numerical Modeling of a Riveted Steel Bridge for Fatigue Evaluation	O.M. El-Hussieny, E.B. Matar, H.E.M. Sallam & A.E.A. El-Sisi	Egypt
IX-A-4	Response Spectrum Analysis of Curved Bridges Isolated by Double Concave Friction Pendulum Including Soil-Foundation Effects	Sevket Ates, Michael C. Constantinou	Turkey

12:30 PM – 1:30 PM

Midday Session (continued)

Session X-A: FRP Composites in Sustainable Construction

Room: 3

Moderators: *Prof. Fatma El-Zabara ElRefaii, Prof Amr Abdel-Rahman, Dr. A. Ushakov*

X-A-1	Architectural Glazing With Laminated Glass Using Composite Interlayer	M. Morsi El-Shami, and Ahmed Elshafey	Egypt
X-A-2	Behavior of R. C. Box Girders Strengthening Using FRP Sheets	Ramadan Abdal Aziz Askar, M. M. A. El-Metawally; M. Abdal Al- khalek	Egypt
X-A-3	Comparison of Analysis Results of Footbridges Using Steel and CFRP Materials	Süleyman Adanur, Ahmet Can Altunışık, Abdurrahman Keskin	Turkey
X-A-4	Concrete Deck Strengthening with – Linforce-C System	Nagi Abo-Shadi, A. S. Mosallam, S. Abassi	Egypt

1:30 PM – 2:30 PM

Lunch & Exhibitions

2:30 PM – 3:45 PM

Afternoon Session

Session VII-C: Bamboo Design, Application and Innovation

(session continued from afternoon)

Room: 4

Moderators: *Prof. Mostafa Soliman, Prof. Mohamed El-Zanaty, Prof Hamdy Shaheen*

VII-C-1	Plant Extracts Based Eco-Friendly Treatment of Bamboo Species for Rural Housing	Perminder Dua, K.K.Pant, Santosh Satya, S. N. Naik	India
VII-C-2	Seismic Testing of a Bamboo House	R.Ramesh Babu	India
VII-C-3	Study on Effectiveness of Traditional Bamboo Treatment Methods for Rural Housing	Vikas kardam, K.K.Pant, Santosh Satya, Perminder Dua, P. Sudhakar	India
VII-C-4	Tension Test on Whole Round Bamboo	Bajoria K.M., Jain P., Lahoti A. and Prajapati D.	India

Day 2 – Tuesday – June 29, 2010

2:30 PM – 3:45 PM

Afternoon Session (continued)

Session IX-B: Computational Methods in Sustainable Construction

(session continued from afternoon)

Room: 2

Moderators: *Prof. Mohamed Sameh Helal, Prof. Mohamed Nabeel Abdel-Salam*

	Sponsor Presentation	Chemicals for Modern Buildings	Egypt
IX-B-1	Finite Difference Modeling of Groundwater Control In Urban Environment: Case Study	Fathalla M. El-Nahas, Abdel Menem Sanad, Mahmoud M. Kassem	Egypt
IX-B-2	Multiple Fuzzy Goal Programming for Network Optimization In Construction Industry	V S S. Kumar , Rakesh, Ch, And Prakash, D	India
IX-B-3	Numerical Simulation of Charlotte Coliseum Demolition Using Applied Element Method	Huda M. Helmy, Hamed M. Salem And Hatem S. Tageldin	USA
IX-B-4	Post-Construction Use of Building Information Models for the Mechanical, Electrical, and Plumbing Systems In Medical Projects	Haiyan Xie, Amin K. Akhnoukh And Wei Shi	China
IX-B-5	Three Dimensional Analysis of Fixed Base Connection	I.I. Ishac, M.S. Abohashem, H.M. Maaly, M. A. Deeb	Egypt

2:30 PM – 3:45 PM

Afternoon Session (continued)

Session X-B: FRP Composites for Sustainable Construction

(session continued from afternoon)

Room: 3

Moderators: *Prof. Shaker El-Behairy, Prof. Nabil Abdel-Badei, Prof. Hassan Allam*

X-B-1	Experimental Bond-Slip Behavior of FRP Bars and Concrete	Mohamed Hussain	Egypt
X-B-2	Experimental Study of Concrete-Filled GFRP Pile In Sand	Nagwa Elsakhawi, Alaa Ata, and Marwa Nabil	Egypt
X-B-3	Numerical Analysis of Strengthened Flat Slab Using Carbon Fiber-Reinforced Polymer	Osman, Shallan, Hesham F. Shaaban and Mahar K. Mohamed	Egypt
X-B-4	Pull-Out Behavior of Web/Flange Junctions of Thin-Walled Pultruded Composites	Ayman S. Mosallam, Ahmed A. Elsadek, Selim Pul, Rashid Miraj	USA
X-B-5	Rotational Behavior of Web-Flange Junctions of Open-Web Pultruded Composites	Ahmed A. Elsadek	USA

Day 2 – Tuesday – June 29, 2010

2:30 PM – 3:45 PM

Afternoon Session (continued)

Session XI: Sustainability of Pavement, Roads and Transportation Engineering

Room: 1

Moderators: *Prof. Ahmed Atef Gadallah, Prof. Oaima Salab El-Din, Prof. Magdy Salab NourElDin*

	Sponsor Presentation	(Alexandria Const. (Talaat Mostafa))	Egypt
XI-1	The AASHTO Procedure Versus A New Proposed Technique For Investigating The Soil Erosion Effect On Rigid Pavements Behavior	S. A El-Kholy, S. A. Galal	Egypt
XI-2	Green Roller Compacted Concrete Pavement for Green Road From Natural and C&D Waste Aggregate and Recycled Plastics Fibers	Zeinab Salah .El Deen Houssieen	Egypt
XI-3	Theoretical and Experimental Study to the Relation Between Air Void Content and Stripping Prediction of Airfield Asphalt Pavement	Abdelzaher E. A. Mostafa, Mohamed .S. Ouf	Egypt
XI-4	Toward Sustainability: Enhancing the Properties of Asphalt Pavement Sub-grade Layer Using Soil Stabilizer	M. S. Ouf , Abdelzaher E. A. Mostafa	Egypt

4:30 PM – 7:00 PM

Innovative Systems Park Site Visit (Registration Based)

End of Day 2

Day 3 – Wednesday – June 30, 2010

8:00 AM – 8:45 AM

Registration

9:00 AM – 10:00 AM

Keynote Lectures – Morning Session

Moderators: *Prof. Nasmal AbdelKader, Prof. Sabar Attia, Prof. Suzette Michelle*
 Speaker 1: Mr. Jeff Willis Emirates Green Building Council USA
 Speaker 2: Mr. Johan Perslow, P.E. Pacifica Advanced Civil Engineering USA

10:00 AM – 11:00 AM

Mid-Morning Session

Session XII-A: Advances in Structural Analysis, Design and Sustainable Construction

Room: 1
 Moderators: *Prof. Adel Salem, Prof. Fayrouz El-Deib*

XII-A-1	Advanced Design of 2D Shallow Steel Arches	Maheeb M. E. Abdel-Ghaffar, Basel M. Elsamman	Egypt
XII-A-2	Buckling Analysis of Vertically Curved Box Profiles Subjected to In-Plane Moments	Ramadan H.M.	Egypt
XII-A-3	Damage Identification of Structures Using Dynamic Characteristics	A. M. El-Shihy, H. Osman, R. Samir	Egypt
XII-A-4	Elastic Stability of Column Braced Steel Frameworks and their Use In Structural Steel Dry Board Systems	Salem, A. H., Elserwi, A. A. and El Dib, F. F.	Egypt

10:00 AM – 11:00 AM

Mid-Morning Session (continued)

Session XIII-A: Seismic Repair & Retrofit and Reinforced Concrete Construction

Room: 2
 Moderators: *Prof. Ashraf El-Zanaty, Prof. Adel Akl, Prof. Hatem Gheith*

XIII-A-1	A New Technique for Collapse Analysis of Multi-Story RC Structures Subjected to Extreme Loading Conditions	Mohamed Gomaa , Said Elkholy , Adel Akl	Egypt
XIII-A-2	Behavior of Pre-Cracked RC Beams Strengthened With CFRP Sheets	Mahmoud M. Hashem, Youssef L. Zaki, Magdy N. Salib and Ahmed A. Hamouda	Egypt
XIII-A-3	Collapse Analysis of Reinforced Concrete Structures Subjected to Floods	Hamed M. Salem	Egypt
XIII-A-4	Determining the Optimum Location of Shear Walls In Reinforced Concrete Buildings Using Non-Linear Analysis	S. Mohsen Asaei and Shahid Kabir	Malaysia
XIII-A-5	Effect of Cracking and Slab Openings on the Lateral Behavior of Tall Buildings	Heba A. Mohamed , Hilal A. Mahmoud	Egypt

10:00 AM – 11:00 AM

Mid-Morning Session (continued)

Session XIV-A: Piles, Foundations and Safety and Security of Bridges

Room: 3

Moderators: *Prof. Amr Radwan , Prof. Mostafa Mosaad, Prof. Khadiga Abdel-Ghani*

XIV-A-1	Analysis of Lateral Spread-Induced Pile Failure	Reda Farag, Mahmoud El-Meligy and Achintya Haldar	Egypt
XIV-A-2	Analysis of Geotechnical Parameters From Pima County Basin In Arizona	M. M. Ali, F. Ahmad, A. S. Yahya, J. Prasetijo	Malaysia
XIV-A-3	Boundary Condition Effect on the Dynamic Characteristics of Laboratory Bridge Model	Ahmet Can Altunışık Alemdar Bayraktar Barış Sevim Süleyman Adanur	Turkey
XIV-A-4	Field and Numerical Study of the Effect of Geotechnical Conditions on Wave Propagation of Underground Explosion In Rock Mass	Hazem A. Hasan, Adel M. Belal, Ismail M. Kamal, Fathalla M. El-Nahhas	Egypt
XIV-A-5	Finite Element Analysis of Soil-Diaphragm Wall Interaction During the Construction of New Adjacent Building	A. M. Belal	Egypt

11:00 AM – 11:30 AM

Coffee Break

11:30 AM – 12:30 PM

Keynote Lectures – Midday Session

Moderators: *Prof. A. El-Malawany, Prof. Sayed El-Tony, Prof. Dina Shebayeb,*

Speaker 1: Prof. Adel Yassin Ain Shams University

Speaker 2: Prof. Tarek El-Sheikh UN-Habitat

Egypt

UN/Egypt

12:30 PM – 1:30 PM

Midday Session

Session XII-B: Advances in Structural Analysis, Design and Sustainable Construction

Room: 1

Moderators: *Dr. C.T. Bathala, Prof. Mokhtar Sedeik, Prof. Mourad Bakhoum*

XII-B-1	Enhancement In Buckling Capacity of Steel Tanks Using FRP Composites	Al-Kashif M.A, Ramadan H., Rashed A., And Haroun, M.A	Egypt
XII-B-2	Kafl Toshka Dam: Analysis and Design	Eehab Khalil and Mohie Elmashad	Egypt
XII-B-3	Key Role of Structural Engineers in Smart and Sustainable Design	Mohamed A. Azab	Egypt
XII-B-4	Effects of Stud Rails on Resistance of Edge Slab-Column Connections	Esam El-Awady, Mohamed Husain , Mahmoud Y. Zaghlal	Egypt

12:30 PM – 1:30 PM

Midday Session (continued)

Session XIII-B: Seismic Repair & Retrofit and Reinforced Concrete Construction

Room: 2

Moderators: *Prof. Metwally Abu-Hamd, Prof. Hesham Sobhy, Eng. Sonia Naser*

XIII-B-1	Effect of High Percentage of Sodium Chloride (NaCl) On the Behavior of Reinforced Concrete Beams	Sayed abd-elsalam, Hamdy Shehab, Ass. Prof.Dr. Eman El-Shamy, Shymaa M. M. Shawky	Egypt
XIII-B-2	Effects of Elevated Temperature – Up to 225 OC – on Compressive Strength of Concrete Containing Chemical and/or Mineral Admixtures	Hamdy A. Shehab El-Deen and Youssef L. Zaki	Egypt
XIII-B-3	Evaluation of Corrosion Activity of Reinforcement In Concrete Specimens Exposed to Chloride Attack	Magdy N. Salib and Hatem A. Elzouki	Egypt
XIII-B-4	Flexural Strengthening Effects Due to Bonding Pre-Tensioned AFRP Sheets to Pre-Cracked RC Beams Using a Simple Anchoring Method	Abdel Aziz M. Aly; Norimitsu Kishi; Yusuke Kurihashi and Hiroshi Mikami	Egypt

Day 3 – Wednesday – June 30, 2010

12:30 PM – 1:30 PM

Midday Session (continued)

Session XIV-B: Piles, Foundations and Safety and Security of Bridges

Room: 3

Moderators: *Prof. Mona Eid, Prof. Fathalla El-Nabas, Prof. Sami Abdel-Latif*

XIV-B-1	Improvement of Existing Shallow Foundation Performance Above Uncontrolled Fill Up to 20 Meter Thickness	Eng. Mohamed Osama Hassan	Egypt
XIV-B-2	Performance of Folded Strip Footings	Sayed Abdel Salam , Gouda Attia, Tarek Nageeb , Mahmoud Samir	Egypt
XIV-B-3	Partial Replacement of Soft Clay by Expanded Polystyrene Under Isolated Strip Footings	Alaa Ata, Tarek Naguieeb and Essam.F. Badrawi	Egypt

12:30 PM – 1:30 PM

Midday Session (continued)

Room: 4

Moderators: *Prof. Ahmad Abdein, Prof. Ibrahim Abdel-Rasheed, Prof. Magdy Helal*

Session X-A: Miscellaneous Topics

X-A-1	Effect of new cement types on Mechanical and Time dependant properties of concrete	Mohamed Zawam, Hossam Hodhod	Egypt
X-A-2	Corrosion Activity of Steel Bars Embedded in Magnesium Phosphate Fiber Reinforced Cementitious Material "PCW Grancrete"	Alaa El-Din Sharkawi, Sami Rizkalla and Paul Zia	Egypt
X-A-3	Evaluation of the Thermal Performance of Building Envelope in Toshky Region, Egypt	S. S. Sheble, M.H. Khalil, M.A. Helal, and M. El-Demirdash	Egypt
X-A-4	Behavior Of Reinforced Concrete Beams Strengthened In Negative Moment Region Using CFRP Plates	Salah Abdel-Gawad Ali	Egypt

1:30 PM – 2:30 PM

Lunch & Exhibitions

2:30 PM – 3:30 PM

Afternoon Session

Session XII-C: Advances in Structural Analysis, Design and Construction

Room: 1

Moderators: *Prof. Hussein Abbas, Prof. Asbraf Osman, Prof. Fayrouz El-Deib*

	Sponsor Presentation	Arab Contractors	Egypt
XII-C-1	New High Efficient Placement for Semi-Active Hydraulic Dampers In the Buildings	Sayed S. Abdel Salam , Osman Shallah, Yasser El-Husseini , And Ebtsam Fathy	Egypt
XII-C-2	Selecting a Suitable Structural System for a Tall Building	N. F. El-Leithy, M. M. Hussein, W. A. Attia	Egypt
XII-C-3	Strength Test of a Light Gauge Steel Structure Building Constructed In Pakistan (Case Study)	Liaqat Ali Qureshi, Tahir Sultan, M. Sheraz Raja & M. Fiaz Tahir	Pakistan
XII-C-4	Flexural Fatigue Performance of C-Shape Sections	Ehab Hasan Ahmed Hasan Ali, Ghada Nabeel Eweis Saudi	Egypt

Day 3 – Wednesday – June 30, 2010

2:30 PM – 3:30 PM

Afternoon Session (continued)

Session XIII-C: Seismic Repair & Retrofit and Reinforced Concrete Construction

Room: 2

Moderators: *Prof. El-Sayed Abdelraouf, Prof. Ahmad Anies, Prof. Mohamed Nabeel Abdel Salam*

	Sponsor Presentation	Fire Trap	Egypt
XIII-C-1	Non-Linear Finite Element Analysis of Pre-stressed Concrete Beams	Suzan A. A. Mustafa	Egypt
XIII-C-2	Performance of Repaired Rectangular Columns With Innovative Spiral Confinements	Khaled Fawzy	Egypt
XIII-C-3	Proper Shear Key Orientation for Seismic Response Assessment of Skew RC Box-Girder Bridges	Amr Abouhashish , Ahmed Abdel-Mohti, A.	Egypt
XIII-C-4	Reliable Prediction of Moment Capacities of High-Strength Concrete Members Using Existing International Design Codes	Ibrahim M. Metwally	Egypt

2:30 PM – 3:30 PM

Afternoon Session (continued)

Session XIII-D: Seismic Repair & Retrofit and Reinforced Concrete Construction

Room: 3

Moderators: *Prof. Mohamed Talaat Mostafa, Prof. Mohamed Ragaai Badr*

XIII-D-1	Seismic Retrofit and Repair of CMU Reinforced Walls	Ayman Mosallam, Khalid Alam, Mohamed Salama, Süleyman Adanur	USA
XIII-D-2	Strengthening of Full Scale R.C. Columns Under Sustained Loading	Hamdy K. Shehab El-Din, Said M. Abd-Alla, and Ahmed S. Eisa	Egypt
XIII-D-3	Tests on Battered Beam-Columns Composed of Four Equal Slender Angles subjected to eccentric compression force.	A. H. Salem, M. A. El Aghoury, M. T. Hanna AND E. A. Amoush	Egypt
XII-D-4	Structural Identification of Tams Slab Bridge: Analytical Aspects	Hesham Sayed, Ashraf Fadel , Sherif Mourad, And Emin Aktan	Egypt

2:30 PM – 3:30 PM

Afternoon Session (continued)

Session X-B: Miscellaneous Topics

Room: 4

Moderators: *Prof. Nadia Raafat, Prof. Hanan Anwar*

X-B-1	FRP Composites: A Qualitative Perspective for Sustainable Repair and retrofit of Structures	Sayed Abbasi	USA
X-B-2	The Earthco Megablock Process	Gary Hames and Larry Williamson	USA
X-B-3	Hybrid Sequencing Batch Reactors (SBR) Offer Effecient Wastewater Treatment	James Matthews	USA
X-B-4	Evaluation of Physical and Mechanical Properties of New Cement Types	Mohamed Zawam, Hossam Hodhod	Egypt

3:30 PM – 3:45 PM

Break

**3:45 PM –4:30 PM Panel Discussion on
*Advances in Affordable Housing and Green Construction***

<i>Moderator:</i>	<i>Prof. Dr. Ayman Mosallam</i>	<i>University of California, Irvine</i>	<i>USA</i>
<i>Panelist 1:</i>	<i>Dr. Andrey Ushakov</i>	<i>Apatech</i>	<i>Russia</i>
<i>Panelist 2:</i>	<i>Prof. Dr. Khosrow Ghavami</i>	<i>Catholic University of Brazil</i>	<i>Brazil</i>
<i>Panelist 3:</i>	<i>Prof. Dr. Abu Zayd Rageh</i>	<i>HBRC</i>	<i>Egypt</i>
<i>Panelist 4:</i>	<i>Mrs. Kathy Kadwell</i>	<i>ASCE</i>	<i>USA</i>
<i>Panelist 5:</i>	<i>Eng. Sonia Nasser</i>	<i>ASCE</i>	<i>USA</i>

4:35 PM – 5:00 PM Recommendations and Closing Ceremony

<i>Moderator:</i>	<i>Prof. Dr. Moustafa El-Demirdash</i>	<i>HBRC</i>	<i>Egypt</i>
<i>Moderator:</i>	<i>Prof. Dr. Ayman Mosallam</i>	<i>University of California, Irvine</i>	<i>USA</i>
<i>Moderator:</i>	<i>Dr. C.T. Bathala</i>	<i>ASCE, Los Angeles</i>	<i>USA</i>

8:00 PM – 10:00 PM Gala Dinner

ROOM DESIGNATION:

ROOM 1: MAIN HALL – HBRC Ground Floor

ROOM 2: HALL 5- HBRC First Floor

ROOM 3: HALL 3- HBRC First Floor

ROOM 4 : HALL 4 – HBRC First Floor