



**1<sup>st</sup> FUE International Conference on New Energy &  
Environmental Engineering**  
APRIL 11-14, 2016



**Egypt Chapter**



# **CONFERENCE PROGRAM**



1<sup>st</sup> FUE International Conference on New Energy &  
Environmental Engineering  
APRIL 11-14, 2016



Egypt Chapter



## TECHNICAL SESSIONS

KEYNOTE LECTURES	
Code	Title
KL-REN-1	The German Energy Transition Need For A Comprehensive Basic Research <i>By Prof. István Erlich, Germany</i>
KL-REN-2	Role and Potentials of Renewable Energy <i>By Prof. Magdy M.A. Salama, Canada</i>
KL-REN-3	FACTS Technology and Applications in Smart Grid-RE Systems <i>By Prof. Adel M Sharaf, Canada</i>
KL-REN-4	Operation and Planning of Clustered Microgrids for Enhancing the Grid Resilience in Extreme Conditions <i>By Prof. Mohammad Shahidehpour, USA</i>
KL-REN-5	Technical Design Specifications and Criteria for Integrating PV Systems into Distribution Networks in Egypt <i>By Prof. Omar H. Abdalla, Egypt</i>
KL-REN-6	Grid Integration of Wind Energy: Values and Impact from Planning to Operation <i>By Prof. Abdel-Aty Edris, USA</i>
KL-ENV-1	Management of Drinking Water and Sanitation in the Arab Countries <i>By Prof. Abdel-Kawy Khalifa, Egypt</i>
KL-ENV-2	Shifts in Composition and Persistence Profiles of Municipal Solid Waste Components and New Challenges for Separation and Recycling <i>By Prof. Berrin Tansel, USA</i>
KL-ENV-3	Sustainability Through Green Economy <i>By Prof. Salah M. El-Haggag, Egypt</i>



1<sup>st</sup> FUE International Conference on New Energy &  
Environmental Engineering  
APRIL 11-14, 2016



Egypt Chapter



<b>PAPER SESSIONS</b>	
<b>Code</b>	<b>Title</b>
PS-REN-1	Wind Energy Systems - Planning & Operation
PS-REN-2	Distributed Generation & Microgrids
PS-REN-3	Wind Energy Systems - Analysis & Control
PS-REN-4	Photovoltaic Systems - Planning & Operation
PS-REN-5	Photovoltaic Systems -Analysis & Control
PS-REN-6	Smart Grids
PS-ENV-1	Water Resources Management
PS-ENV-2	Sustainable Design
PS-ENV-3	Sustainable Construction Materials
PS-ENV-4	Green Buildings



1<sup>st</sup> FUE International Conference on New Energy &  
Environmental Engineering  
APRIL 11-14, 2016



Egypt Chapter



## VENUE

The events of ICNEEE 2016 will take place at:

**Intercontinental Hotel – Citystars, Cairo**

## PROGRAM

**MONDAY 11/4/2016**

**OPENING CEREMONY**

**Hall: Al Sarraya**

**7.00– 8.00 P.M.**

**WELCOME SPEECHES**

**8.00 – 8.30 P.M.**

**VIDEO PRESENTATION**

**8.30 – 10.00 P.M.**

**WELCOME DINNER**



1<sup>st</sup> FUE International Conference on New Energy &  
Environmental Engineering  
APRIL 11-14, 2016



Egypt Chapter



**TUESDAY 12/4/2016**

**TIME**

<b>8.30 – 9.30 A.M.</b>	<b>REGISTRATION</b>	<b>Hall: Al Hambra 2</b>
-------------------------	---------------------	--------------------------

<b>KEYNOTE LECTURE: KL-REN-1</b>	<b>Hall: Al Hambra 1</b>
----------------------------------	--------------------------

	<b>Lecture</b>
	<b>The German Energy Transition Need For a Comprehensive Basic Research</b>
<i>(Tuesday)</i>	Prof. István Erlich <i>Head of the Inst. of Electrical Power Systems, Univ. of Duisburg-Essen, Germany</i>
<b>9.30 – 10.30 A.M.</b>	<i>Chairmen: Prof. Mohamed A. Ezz Elarrab, Menoufia Univ. Prof. Yasser G. Hegazy, German Univ. in Cairo.</i>

<b>10.30 – 11.00 A.M.</b>	<b>EXHIBITION OPENING</b>
---------------------------	---------------------------

<b>KEYNOTE LECTURE: KL-REN-2</b>	<b>Hall: Al Hambra 1</b>
----------------------------------	--------------------------

	<b>Lecture</b>
	<b>Role and Potentials of Renewable Energy</b>
<i>(Tuesday)</i>	Professor. Magdy M.A. Salama, <i>University of Waterloo, Canada, Fellow IEEE</i>
<b>11.00 – 12.00 P.M.</b>	<i>Chairmen: Prof. Ibrahim Megahed, Alexandria Univ. Prof. Nabil Abbasy, Alexandria Univ.</i>



1<sup>st</sup> FUE International Conference on New Energy &  
Environmental Engineering  
APRIL 11-14, 2016



Egypt Chapter



**12.00 – 12.30 P.M. | COFFE BREAK**

**KEYNOTE LECTURE: KL-REN-3**

**Hall: Al Hambra 1**

TIME	Lecture
(Tuesday)	
<b>12.30 – 1.30 P.M.</b>	<p><b>FACTS Technology and Applications in Smart Grid-Renewable Energy Systems</b></p> <p>Professor. Adel M Sharaf <i>UNB-ECE DEPT and Sharaf Energy Systems, Inc. Fredericton, NB, Canada -E3C2P2</i></p> <p><i>Chairmen: Prof. Abbas El Hefnawy, Menoufia Univ. Prof. Mostafa Eissa, Helwan Univ.</i></p>

**Hall: Al Hambra 1**

**1.30 – 1.45 P.M. | TRAINING IN RENEWABLE ENERGY**

*Eng.Fady Degheidy, Kitmeer ,Uae*

**Hall: Al Hambra 1**

**1.45 – 2.00 P.M. | IEEE PES – EGYPT CHAPTER PRESENTATION**

*Prof. Ibrahim Helal, IEEE PES Egypt Chapter Chair*

**2.00 – 3.30 P.M. | LUNCH**

**PAPER SESSION: PS-REN-1**

**Hall: Al Hambra 1**

TIME	Session
(Tuesday) 3:30 – 5:00 P.M.	<p align="center"><b>Wind Energy Systems - Planning &amp; Operation</b></p> <p align="center"><i>Chairmen: Prof. Ibrahim Abdel-Moneim, Benha Univ. Prof. Elwi E.El-kholy, Menoufia Univ.</i></p>

No.	Code	Time	Paper
1	EPR27	3.30 – 3.45 p.m.	<p align="center"><b>Design and Dynamic Performance of Wind-Driven Permanent Magnet Axial Field Synchronous Generator.</b></p> <p align="center">By M. A. Almozayen, M. K. El-Nemr, E. M. Rashad, A. I. Shobair</p>
2	EPR42	3.45 – 4.00 p.m.	<p align="center"><b>An Efficient Speed Controller of Three Phase Induction Motors Through Direct Torque Control</b></p> <p align="center">By Sayed O. Madbouly, Hussein F. Soliman, M. A. Badr</p>
3	EPR24	4.00 – 4.15 p.m.	<p align="center"><b>Improved Performance of Wind Power Generation Using Hybrid Battery / Supercapacitor Energy Storage Systems</b></p> <p align="center">By R. Ramadan, Doaa M. Yehia, Essam M. Rashad</p>
4	EPR13	4.15 – 4.30 p.m.	<p align="center"><b>Optimal Siting and Sizing of Wind Farms to Minimize Energy Losses in Power Systems</b></p> <p align="center">By A.S. Zalhaf, Ayman Hoballah , Ahmed M. Azmy</p>
5	EPR34	4.30 – 4.45 p.m.	<p align="center"><b>Power Management Strategy with Maximum Power Extraction of a Stand-Alone Wind-Driven Permanent Magnet Synchronous Generator</b></p> <p align="center">By M. F. ELMorshedy, S. M. Allam, Ahmed I. A. Shobair , Essam M. Rashad</p>
6	EPR39	4.45 – 5.00 p.m.	<p align="center"><b>Stabilization of WES Using FACTS Devices Based Artificial Neural Network</b></p> <p align="center">By A. M. Hemeida, A. A. Saleh</p>

**PAPER SESSION: PS-REN-2**

**Hall: Al Hambra 2**

TIME	Session
(Tuesday) 3:30 – 5:00 P.M.	<p align="center"><b>Distributed Generation &amp; Microgrids</b></p> <p align="center"><i>Chairmen: Prof. Mohamed Abdelatif Badr, Ain Shams Univ. Prof. Ashraf Hemeida, Aswan Univ.</i></p>

No.	Code	Time	Paper
1	EPR16	3.30 – 3.45 p.m.	<p align="center"><b>DG Placement and Sizing in Radial Distribution Network Using Bat and Firefly Algorithms</b></p> <p align="center">By Eyad S. Oda, Abdelazeem A. Abdelsalam, Mohamed N. Abdelwahhab, Magdi M. El-Saadawi</p>
2	EPR3	3.45 – 4.00 p.m.	<p align="center"><b>Graphical/Analytical Methodology for the Allocation of Multiple Distributed Generators in Radial Distribution Networks</b></p> <p align="center">By Ahmed R. Abul'Wafa ,Bahaa Saad Mahmoud ,Aboul'Fotouh El'Garably</p>
3	EPR21	4.00 – 4.15 p.m.	<p align="center"><b>DG Size Planning of Radial Distribution Feeder Considering Protection Sustainability</b></p> <p align="center">By Abdelrahman Ahmed Akila</p>
4	EPR11	4.15 – 4.30 p.m.	<p align="center"><b>Performance Investigation of Microgrid Stability Subsequent to Fault Provoked-Islanding with Different Loads and DG Conditions</b></p> <p align="center">By Ahmed A. Salem, Abdelazeem A. Abdelsalam, Ali H. Kasem Alaboudy, Hossam E.A. Talaat</p>
5	EPR33	4.30 – 4.45 p.m.	<p align="center"><b>Adaptive Underfrequency Load Shedding for an Islanded Microgrid</b></p> <p align="center">By T.I. Abdel Hady, Hossam E.A. Talaat, R.A. Swief</p>
6	EPR20	4.45 – 5.00 p.m.	<p align="center"><b>Optimal Design of Halbach Array Linear Generator for Wave Energy Converters at Maximum Power Transfer Condition</b></p> <p align="center">By A. E. ElGebaly, M. K. El-Nemr</p>





1<sup>st</sup> FUE International Conference on New Energy &  
Environmental Engineering  
APRIL 11-14, 2016



Egypt Chapter



WEDNESDY 13/4/2016

**KEYNOTE LECTURE: KL-REN-4**

**Hall: Al Hambra 1**

TIME	Lecture
(Wednesday) 9.00 – 10.00 A.M.	<p><b>Operation and Planning of Clustered Microgrids for Enhancing the Grid Resilience in Extreme Conditions</b></p> <p>Prof. Mohammad Shahidehpour <i>Illinois Institute of Technology, Chicago, IL 60616 USA.</i> <i>Fellow, IEEE</i></p> <p><i>Chairmen: Prof. Ahmed Hossam Eldin, Alexandria Univ.</i> <i>Prof. Metwally Al-Sharkawy, Ain Shams Univ.</i></p>

**KEYNOTE LECTURE: KL-ENV-1**

**Hall: Al Hambra 2**

TIME	Lecture
(Wednesday) 9.00 – 10.00 A.M.	<p><b>Management of Drinking Water and Sanitation in the Arab Countries</b></p> <p>Prof. Dr. Abdel-Kawi Khalifa <i>Ain Shams University, Cairo, Egypt</i></p> <p><i>Chairmen: Prof. Mohamed Nour, Eldin, Ain Shams Univ.</i> <i>Prof. Iman El Azizi, Ain Shams Univ.</i></p>



1<sup>st</sup> FUE International Conference on New Energy &  
Environmental Engineering  
APRIL 11-14, 2016



Egypt Chapter



**KEYNOTE LECTURE: KL-REN-5**

**Hall: Al Hambra 1**

TIME	Lecture
(Wednesday) 10.00 – 11.00 A.M.	<p><b>Technical Specifications for Integrating PV Systems into Distribution Networks in Egypt</b></p> <p>Prof. Omar Hanafy , <i>Helwan University, Egypt</i></p> <p><i>Chairmen: Prof. Adel Abolela, Menoufia Univ. Prof. Essam Rashad, Tanta Univ.</i></p>

**KEYNOTE LECTURE: KL-ENV-2**

**Hall: Al Hambra 2**

TIME	Lecture
(Wednesday) 10.00 – 11.00 A.M.	<p><b>Shifts in composition and persistence profiles of municipal solid waste components and new challenges for separation and recycling</b></p> <p>Prof. Dr .Berrin Tansel <i>Florida International University(USA)</i></p> <p><i>Chairmen: Prof. Hamdy Ibrahim, Ain Shams Univ. Prof. Nahla Abu Elata, Ain Shams Univ.</i></p>

**11.00 – 11.30 A.M.**

**COFFE BREAK**



1<sup>st</sup> FUE International Conference on New Energy &  
Environmental Engineering  
APRIL 11-14, 2016



Egypt Chapter



**KEYNOTE LECTURE: KL-REN-6**

**Hall: Al Hambra 1**

TIME	Lecture
(Wednesday) 11.30 – 12.30 P.M.	<p><b>Grid Integration of Wind Energy: Values and Impact from Planning to Operation</b></p> <p><i>Prof. Abdel-Aty Edris, Fellow, IEEE, USA.</i></p> <p><i>Chairmen: Prof. Mazen Abdel Salam, Assiut Univ. Prof. Sabry Abdel Latif, Menoufia Univ.</i></p>

**KEYNOTE LECTURE: KL-ENV-3**

**Hall: Al Hambra 2**

TIME	Lecture
(Wednesday) 11.30 – 12.30 P.M.	<p><b>Sustainability Through Green Economy</b></p> <p><i>Dr. Salah M. El-Haggar Chairman of Mechanical Engineering Department, The American University in Cairo (AUC) and President of Egyptian Green Building Council (EGGBC)</i></p> <p><i>Chairmen: Prof. Sayed Madbouli, Ain Shams Univ. Prof. Morad Abdel Kader, Ain Shams Univ.</i></p>

12.30 – 1.00 P.M.	<b>COFFE BREAK</b>
-------------------	--------------------

**PAPER SESSION: PS-REN-3**

**Hall: Al Hambra 1**

TIME		Session	
(Wednesday)		<p><b>Wind Energy Systems - Analysis &amp; Control</b></p> <p><i>Chairmen: Prof. Hassan Eltamally , Minea Univ., Prof. Magdy Oteiba, Fayoum Univ.</i></p>	
1:00 – 2:45 P.M.			
No.	Code	Time	Paper session
1	EPR9	1.00 – 1.15 p.m.	<p><b>Maximum Wind-Power Extraction under Minimum Converter Current of a Grid-Connected Wind-Driven Brushless Doubly-Fed Reluctance Generator</b></p> <p>By Mohamed G. Mousa, S. M. Allam, , Essam M. Rashad</p>
2	EPR23	1.15 – 1.30 p.m.	<p><b>MPPT for Variable Speed Wind Turbine Based on Five-phase PMSG Using Model Predictive Control</b></p> <p>By Abdel-Raheem Youssef, Mahmoud A. Sayed, M.N. Abdel-Wahab, Gaber Shabib Salman</p>
3	EPR28	1.30 – 1.45 p.m.	<p><b>Performance analysis of a matrix converter interfaced wind energy conversion system for static load application</b></p> <p>By Kotb B. Tawfiq , A. F. Abdou, E. E. EL-Kholy, S. S. Shokralla</p>
4	EPR12	1.45 – 2.00 p.m.	<p><b>Analysis and Control of a PMSG-Based Stand-alone Wind-Generating System</b></p> <p>By M. ELMorshedy, S. Allam, Ahmed I. shobair , Essam M. Rashad</p>
5	EPR25	2.00 – 2.15 p.m.	<p><b>Optimized Fuzzy Controllers for DFIG based Wind Farm Connected to Grid using PSO</b></p> <p>By M. Abd Elkareem, Elsayed A. Mohamed, Mohamed A. Ebrahim</p>
6	EPR37	2.15 – 2.30 p.m.	<p><b>An LQR-Based SSR Damping Controller For Fully Rated Converter-Based Wind Turbines</b></p> <p>By</p>

A. M. Ewais, J. Liang

**PAPER SESSION: PS-ENV-1**

**Hall: Al Hambra 2**

TIME	Session
(Wednesday) 1:00 – 2:45 P.M.	<p><b>Water Resources Management</b></p> <p><i>Chairmen: Prof. Aly El Bahrawy, Ain Shams Univ., Prof. Said El Khouly, Ain Shams Univ.</i></p>

No.	Code	Time	Paper session
1	WATER1	1.00 – 1.15 p.m.	<p><b>Environmental Impacts of Bahr El Baqar Drain on Manzala Lake Water Quality using Remote sensing</b></p> <p>By Noha Donia,</p>
2	WATER2	1.15 – 1.30 p.m.	<p><b>Mathematical Simulation Model of The Application of Agriculture Wastes For Pollution Treatment In Water Stream Bodies</b></p> <p>By El Nadi, M.H.1, Abdalla, M.A.F</p>
3	WATER3	1.30 – 1.45 p.m.	<p><b>Simulation Model for Biological Desalination With Algae Ponds Under Nature Conditions</b></p> <p>By El Hosseiny, O.M. , Fergala, M.A.A , El Nadi, M.H. A</p>
4	WATER4	1.45 – 2.00 p.m.	<p><b>Using Wave Energy Convertor as a tool for Coastal Zone Development and Shore Protection</b></p> <p>By Walid Reda El Sayed</p>
5	WATER5	2.00 – 2.15 p.m.	<p><b>Risk Assessment Approach for Evaluating the Application of Microbiological Criteria Guidelines for Wastewater Reuse In Agriculture in Developing Countries</b></p> <p>By H.T. El Zanfaly</p>
6	WATER6	2.15 – 2.30 p.m.	<p><b>Classical Optimization of Process Variables in The Treatment of Real Textile Wastewater Using Activated Carbon and Limestone Powder Containing Sea-Weed Binder</b></p> <p>By</p>

Mohamad A. Kamaruddin, Mohd Suffian Yusoff, Awatif M. Isa

<b>7</b>	<b>WATER7</b>	2.30 – 2.45 p.m.	<b>Public Health Aspects of Methane and Algal Production</b> By H.T. El-Zanfaly, Fayza A. Nasr , Salwa A. Shehata
----------	---------------	---------------------	---

<b>2.45 – 4.00 P.M.</b>	<b>LUNCH</b>
-------------------------	--------------

**PAPER SESSION: PS-REN-4**

**Hall: Al Hambra 1**

TIME	Session
(Wednesday) <b>4:00 – 5:15 P.M.</b>	<b>Photovoltaic Systems - Planning &amp; Operation</b>  <i>Chairmen :Prof. Ahmed Abdel Sattar, Ain Shams Univ., Prof. Rizk Hamouda, Ain Shams Univ.</i>

No.	Code	Time	Paper session
<b>1</b>	<b>EPR8</b>	4.00 – 4.15 p.m.	<b>Sizing and Control of Large PV System Inverters Connected to MV Grid</b> By Hassan H. Eldeeb, Walid A. Omran, and Mostafa I. Marei
<b>2</b>	<b>EPR17</b>	4.15 – 4.30 p.m.	<b>A Probabilistic Analysis for Photovoltaic System using Evolutionary Algorithms</b> By Nathalie.Nazih, R.A.Sweif, T.S.Abdel-Salam , M.A.Mostafa
<b>3</b>	<b>EPR43</b>	4.30 – 4.45 p.m.	<b>Analysis of Hybrid Renewable Energy Systems Configurations</b> By Ali M. Eltamaly, Abdullrahman A. Al-Shamma'a
<b>4</b>	<b>EPR15</b>	4.45 – 5.00 p.m.	<b>Sizing of Battery Bank for a Stand-Alone Hybrid Wind-PV System</b> By

Ahmed Abdelaziz, karim H. Youssef, Ahmed A. Hieba

5	EPR22	5.00 – 5.15 p.m.	<p><b>The Effect of Photovoltaic Rooftop systems on the Power Quality of Distribution Network</b> By Maha Ali , Hanaa Karawia</p>
---	-------	------------------	---

**PAPER SESSION: PS-ENV-2**

**Hall: Al Hambra 2**

TIME	Session
<p>(Wednesday) 4:00 – 5:45 P.M.</p>	<p><b>Sustainable Design</b> <i>Chairmen: Prof. Aly Eid, Ain Shams Univ., Prof. Omar Al Hussein, Ain Shams Univ.</i></p>

No.	Code	Time	Paper session
1	ARCH2	4.00 – 4.15 p.m.	<p><b>A Novel Approach Towards a Sustainable Ecotourism Community</b> By Eng. Mianda Khattab, Salah El Haggar</p>
2	ARCH9	4.15 – 4.30 p.m.	<p><b>Pedestrian Bridges from Architectural and Sustainable Perspectives</b> By Sahar Morsy Mohamed, Mohamed Osama Sayed</p>
3	ARCH3	4.30 – 4.45 p.m.	<p><b>Beyond Zero Waste Concept ; A revolution for Sustainable Community</b> By Salah El Haggar , Mianda Khattab</p>
4	ARCH7	4.45 – 5.00 p.m.	<p><b>The Power of Codes to Generate New Forms in Architecture</b> By Morad Abdelkader, Samir Sadek Hosny, Ahmed Safwat, Marwa A. El Gendy</p>
5	CIVIL4	5.00 – 5.15 p.m.	<p><b>Sustainable Assessment for Risk Management Capabilities in Infrastructure Projects</b> By</p>

Ibrahim M. Mahdi, Hosam M. Elhegazy

6 ARCH5 5.15 – 5.30  
p.m.

**Barriers to Green Buildings in Egypt**  
By  
Asmaa Ashraf Saleh, Dina Nour El Deen

7 ARCH10 5.30 – 5.45  
p.m.

**The Sustainable Sensed Principles of Islamic Landscape  
Architecture**  
By  
Osama Elrawi

**THURSDAY 14/4/2016**

**PAPER SESSION: PS-REN-5**

**Hall: Al Hambra 1**

TIME	Session
(Thursday) 9:00 – 10:30 A.M.	<p><b>Photovoltaic Systems -Analysis &amp; Control</b> <i>Chairmen: Prof. Hamdy Elgohary, Ain Shams Univ., Prof. Said Wahsh, Electronics Research Institute.</i></p>

No.	Code	Time	Paper session
1	EPR35	9.00 – 9.15 a.m.	<p><b>Performance Analysis of Photovoltaic System based-on T-source Inverter</b> E. EL-Kholy, A. Abdou, A. Abdou. El-refay, Eman M. Ghoneim</p>
2	EPR32	9.15 – 9.30 a.m.	<p><b>Minimization of Total Harmonic Distortion for an Asymmetric Multilevel Inverter Fed from Photovoltaic Modules</b> By Kotb. M. Kotb ,Abd Elwahab Hassan, Essam M. Rashad</p>
3	EPR18	9.30 – 9.45 a.m.	<p><b>Soft Computing-Based New Control Techniques For MPPT Of PV-Water Pumping System</b> By Nadia A. Elsonbaty, Mohamed A. Enany, Mahmoud M. Gamil</p>



4	EPR4	9.45 – 10.00 a.m.	<b>Maximum Power Point Tracking for PV System using Fuzzy Logic Control</b> By Mohamed salama - Ahmed Mohamed Atallah - Adel Emarah
5	EPR29	10.00 – 10.15 a.m.	<b>Photovoltaic Generator Applying PCM for MPPT in Standalone and DC Grid Modes of Operation</b> By Maged F. Bauomy, Haytham Gamal, Adel A. Shaltout
6	EPR38	10.15 – 10.30 a.m.	<b>Control of a Stand-Alone Photovoltaic Energy System</b> By Mahmoud M. Hussein

**PAPER SESSION: PS-ENV-3**

**Hall: Al Hambra 2**

TIME	Session
(Thursday) 9:00 – 10:45 A.M.	<b>Sustainable Construction Materials</b>  <i>Chairmen: Prof. Hazem Abdel Latif, Ain Shams Univ., Prof. Elsayed Abdel Raouf, Ain Shams Univ.</i>

No.	Code	Time	Paper session
1	ARCH8	9.00 – 9.15 a.m.	<b>The Use of Nanotechnology and Smart Materials in the Restoration of Heritage Buildings</b> By Yousef Omar El Rafie
2	MECH2	9.15 – 9.30 a.m.	<b>Mechanical Behavior of HDPE Reinforced with Marble and Granite Dust</b> By A.H. Awad, Ayman A. Abd El-Wahab, Mohamed Hazem Abdellatif
3	CIVIL2	9.30 – 9.45 a.m.	<b>Cyclic Behaviour of Reinforced Concrete Exterior Beam-Column Connection: Experimental Evaluation</b> By Mohammadamin Azimi ,Mahmood Md. Tahir, Asma Bagherpourhamedani
4	CIVIL5	9.45 – 10.00 a.m.	<b>Producing Self Compacted Concrete with Locally Available Materials</b> By A. Kh. EL-Baz, KH. M. Heiza, O. El-Nawawy

5	CIVIL3	10.00 – 10.15 a.m.	<b>Performance of An Eco-Mortar Made With Crushed Waste Aggregate from The Manufacture of Clay Bricks as Replacement of Quarry Sand</b> By Benmalek Mohamed Larbi, Harbi Radia
6	MECH1	10.15 – 10.30 a.m.	<b>Effect of Wind Speed &amp; Air Temperature on Pollution Levels in Al-Ain city</b> By Kamal A.F. Moustafa
7	MECH3	10.30 – 10.45 a.m.	<b>Extraction of Water from Air Using Double Slope Condensation Surface</b> By K. H. Awad, M. M. Awad, A. M. Hamed

10.45 – 11.15 A.M.

**COFFE BREAK**

11.15 – 11.45 A.M.

**INDUSTRIAL FIRMS PRESENTATION**

**PAPER SESSION: PS-REN-6**

**Hall: Al Hambra 1**

TIME	Session
(Thursday) 11:45 – 1:15 P.M.	<b>Smart Grids</b>  <i>Chairmen: Prof. Essam Abu Eldahab, Cairo Univ. Prof. Almoataz Abdel Aziz, Ain Shams Univ.</i>

No.	Code	Time	Paper session
1	EPR1	11.45 – 12.00 p.m.	<b>A Robust Decoupled DC-AC FACTS Based Switched Filter Compensation Scheme for PV-Smart Grid Applications</b> By Adel M. Sharaf, Shady H.E. Abdel Aleem, Foad H. Gandoman
2	EPR26	12.00 – 12.15 p.m.	<b>SMES Integration with Smart Grids to Mitigate Impact of EV</b> By Mohamed A. Sheba, Diaa-Eldin A. Mansour ,Ahmed M. Azmy
3	EPR41	12.15 – 12.30 p.m.	<b>Robust Load Frequency Control of a Smart Single Area Power System Considering the Effect of Vehicle-to-Grid V2G Scheme</b> By Tarek Hassan Mohamed

4	EPR14	12.30 – 12.45 p.m.	<b>Optimizing Transmission Network Expansion Planning with the Mean of Chaotic Differential Evolution Algorithm</b> By Ahmed R.Abdelaziz and Ahmed M.Fathy
5	EPR40	12.45 – 1.00 p.m.	<b>An Easy Modelling of OLTC Transformer in Optimal Power Flow</b> By Abdel-Moamen M. A, Salah Kamel
6	EPR31	1.00 – 1.15 p.m.	<b>Electric Field around Overhead Transmission-Line Conductors as Influenced by their Suspension Insulators</b> By M. Abdel-Salam, M. Th. El-Mohandes , A. Adel

**PAPER SESSION: PS-ENV-4**

**Hall: Al Hambra 2**

TIME	Session
(Thursday) 11:45 – 1:30 P.M.	<b>Green buildings</b> <i>Chairmen: Prof. Mahmoud Abdel Rashid, Future Univ. Prof. Shafak Al Wakeel, Ain Shams Univ.</i>

No.	Code	Time	Paper session
1	ARCH1	11.45 – 12.00 p.m.	<b>Renewable Energy in Architecture for Green Cities in Arab World</b> By Dr. Ehab Ibrahim, Abdel Aziz Foda
2	CIVIL1	12.00 – 12.15 p.m.	<b>Optimum Sites for Solar Energy Harvesting in Egypt Based on Multi-Criteria GIS</b> By Gomaa M. Dawod, Mosaad S. Mandoer
3	ARCH4	12.15 – 12.30 p.m.	<b>Integrating Solar Photovoltaics with the Urban Planning process:</b> By Dr. Ahmad A. Al-Jarallah , Elham Abdullah Al-Mohaimed
4	MECH6	12.30 – 12.45 p.m.	<b>Valorization of Household Waste Via Biogas Production in Algeria: Inventory and Perspectives</b> By



1<sup>st</sup> FUE International Conference on New Energy &  
Environmental Engineering  
APRIL 11-14, 2016



Egypt Chapter



---

Benaissa Kheira, Drici Habiba, Dadamoussa Belkhir, Bendraoua  
Abdelaziz

5	ARCH6	12.45 – 1.00 p.m.	<b>Energy Saving and Cost Analysis of Insulating Residential Buildings' Envelopes in Egypt</b> By Abeer Mohammad Moustafa
6	MECH4	1.00 – 1.15 p.m.	<b>Compact Solar Water Heater Design with Phase Change Storage Material</b> By Nahed El Mahallawy, Mohamed A.O.Sewafy
7	MECH5	1.15 – 1.30 p.m.	<b>Evaluation for a Parabolic Trough Linear CPVT In Egypt</b> By Heba A. El-Sayed Mosalam,

---

1.30 – 2.00 P.M.

**CLOSING CEREMONY**

---

**ARAB CONTRACTORS SPORTING CLUB**

4.00 - 6.00 P.M.

**DINNER**