Pharos University Faculty of Engineering Alexandria

First International Conference New Trends for Sustainable Energy 1-3 October 2016



جامعة فاروس كلية الهندسة الإسكندرية

المؤتمر الدولي الأول للأتجاهات الحديثة للطاقة المستدامة 1_1 أكتوبر ٢٠١٦ م

ICNTSE – Schedule Program for 3 days

Day 1 (Saturday 1st of October, 2016)

Time	Activity		
8:30	Registration		
10:00	10:00 Opening Ceremony		
11:00	Coffee Break		
	Keynote sessions chairmen Prof. Abdel Moneim Moussa – Prof. Mamoun Muhammed		
	Keynote 1 Dr. Mohmed Elyamani, MoEE		
	National Policy of Egypt for Renewable Energy		
	Keynote 2		
Voynotos	Prof. Mahmoud El Gammal, PUA		
Keynotes Session starts at	Distributed Generation		
11:30	Keynote 3		
11:50	Prof. Björn Palm, KTH		
	Future Energy Systems		
	Keynote 4		
	Prof. Osama El Masry, PUA		
	Renewable Energy for EGYPT		
13:30	Lunch		

Hall E127 (Power quality)

	Paper	·	Session Chairmen	
Time	code		abd Ellatif -Dr. Ibrahim '	Vaccin
	coue	•	onitoring Survey on LED	
	01C2			-
Session		Eng. Abdelrahman Akila		Ibrahim Yassin
starts	01C3	Harmonic Analysis of Radial Di	•	-
at	0100	Eng. Abdallah Elsherif	Tamer Fetouh	Hasan Shaaban
15:00		Application of DSTATCOM cou	pled with FESS for Pow	er Quality Enhancement
13.00	01C4	ar	nd Fault Mitigation	
		Eng. Nada Mamdouh	R.A.Swief	M.A.L. Badr
Break 15 minutes				
T.:	Paper	9	Session Chairmen	
Time	code	Prof. Mohamed	l Izz Elarab- Prof. Ahme	d Refaat
		The Effect of Harmonics on Dis	tance Relay in Short an	d Medium Transmission
	04.05		Line Model	
	01C5	Fathi M. Abouelenin Karii	m Hassan Youssef	Eng. Hossam Alden
Session			Bahig	8
starts		Applying FACTS to Mitigate Po	wer Quality Problems i	n Steel Making Industry
at	01C7	A Te	chno-Economic Study	
16:15		Eng.	Ahmed M. Hassan	
		Genetic Algorithm Implemen		larmonic Distortion in
	01C8	Cascaded half-bridg	ge Based Multilevel DC	Link inverter
		-	Abd Elwahab Hassan Ess	

Hall E124 (Energy conservation)

F			mergy conservation		
Time	Paper	Session Chairmen			
Time	code	Prof. Abbas Alhefnawy- Prof. Adel A. Abou El-Ela			
	03B5		ICT for Communit	y Energy	
Cassian	ОЗВЗ	Caroline van der V	Veerdt Ri	chard CarmichaelBjörn Palm	
Session starts	02D4	Assessment of En	ergy Conservation	in Egypt's Electric System	
at	UZD4	Eng. A	zhar El Saeed Awad	l Abou Ghoniem	
15:00	03FT	Energy Conservation in Fertilizers Company			
13.00	Dr.Mohamed Mowena, Alexfert Fertilizers Co.			rfert Fertilizers Co.	
Break 15 minutes					
(Bio Energy)					
Time	Paper	er Session Chairmen		men	
Time	code	Prof. Hassan Farag - Prof. Yohannes Kiros			
	03A6	Transesterification of Rapeseed Oil by Solid Oxide Catalysts		il by Solid Oxide Catalysts	
	USAU	Jerry L. Solis ,All	oin L. Berkemar , Lu	icio Alejo , YohannesKiros	
		Modeling and Experimental Investigation for PEMFC to Achieve High Fuel Cell		or PEMFC to Achieve High Fuel Cell	
Session	on 03A3 Performance		ce		
starts		Eng. Andrew N. Aziz			
at		Optimization of Biodiesel	_	Nano Heterogeneous Catalyst from	
16:15	03A4		Waste Cookin	G	
		Prof. M.Abdel Fattah	M.E.Ossma	n M. S. Mansour, Y.O.Fouad.	

Hall E215 (Solar Energy)

	Paper		Sess	sion Chairmen		
Time	code	Prof. Ahmed Hegazy-Prof. Sadek Kassab				
		Performance I		Roof Transparent		l Coupled With
	02A5		-	lture Greenhouse		•
C!		Eng. Alaa H. Salah	Gasser E. Hassan Mo	hamed Elhelw	Hassan Fatl	n and Samy M. Elsherbin
Session		Extended Abstrac	ct: Development	of a Traffic Contr	ol System	for PUA Complex
starts	02A7		Using a	Solar Cells Syster	m	-
at 15:00		Prof. Kadry	I. Montasser, Ch	airman of Dept. Of	Computer	Engineering,
13.00		A Hybrid Stand-Al	one PV-Diesel Po	wer System for a	Base Tra	nsceiver Station in
	02A9			Egypt		
		Eng. H. El	-Santy	M. S. Hamad		A. A. Helal
	Break 15 minutes					
Time	Paper			sion Chairmen		
111110	code			sh- Prof. Fahmy E		
	02A1	0 0		lystems in Adminis		0 0, 1
Session	02/11	Eng. Dina M.Said				Hatem Waheed
starts	02A3		•	erformance of So		
at				Yehia A.El-Tawil		
16:15	0044	Assessment the Pe			etworks in	Estimating Global
	02A4	D M 1		lar Radiation	M El	137 C
		Eng.Mohai	med A. Ali	Gasser E. Hassan	M. Elsay	yed Youssef

Hall E212 (Wind Energy)

		man E212 (Wina Energy)		
Time	Paper	Session Chairmen		
Tille	code	Prof. Elwy Essa. EL-Kholy- Prof. Wageeh Elaskary		
		Experimental and Simulation Verification of Pitch Angle Controller		
	03C1	of DFIG Based Wind Energy Conversion System		
Cossion		Basem E. Elnaghi Eng. Ahmed A. Salem Eyad S. Oda		
Session starts		A Modified Open Loop Control of a Matrix Converter Connected to Wind Energy		
at	03C2	System		
15:00		Eng. Kotb B. Tawfiq A.F. Abdou E. E. EL-Kholy S. S. Shokralla		
13.00	03C3	Impact of Wind Energy Integration On Economic And reliable Operation Of		
		Electrical Networks		
		A. A. Abou El-Ela and S. M. Allam Eng. H. R. Somat		
	Break 15 minutes			
Time	Paper	Session Chairmen		
Tille	code	Prof. Elwy Essa. EL-Kholy- Prof. Wageeh Elaskary		
	03C4	Optimal Planning with Wind Energy for a New City in Egypt		
Session	0364	A. A. Abou El-Ela Prof. S. M. Allam Eng. H. R. Somat		
starts	03C5	Review on Types of Generators for Wind Energy Conversion System		
at	0303	Eng. Kareem Adel Mohammed Dr. Hatem Khater		
16:15		Climate Change Adaptation during the Economic Development. A water-Energy		
10.13	03A2	Nexus Assessment for Bolivia		
		Gabriela Peña, Christopher Arderne, Mohammad R. Hesamzadeh, Mark Howells		

Day 2 (Sunday 2nd of October, 2016)

Time	Keynote session Chairmen
	Prof. Mohammed Gaber – Prof. Yohannes Kiros
	Keynote 5
	Prof. Hossam Moghazy, Alexandria University
	Use of Solar Energy in Irrigation in Egypt,
Vormatas Cassian stants at	Keynote 6
Keynotes Session starts at	Prof Taher Ahmed Al-Sahhaf, Kuwait University
9:00	Kuwait and GCC policies for renewable energy
	Keynote 7
	Prof. Said ElNashaie, UBC
	Sustainable Development
10:30	Coffee Break
	Chairmen Prof. Osama EL Masry - Prof. Göran Engdahl
	Keynote 8
	Prof. Radwan H. Abdel Hamid, Helwan University
	Multipurpose Applications by Thermodynamic Solar (MATS)
Keynotes Session starts at	Keynote 9
11:00	Prof. Björn Laumert, KTH
	The role and future potential of CSP in the MENA region
Ι Γ	Keynote 10
	Dr. Fahd Hashiesh, ABB
	The Grid Challenges & Mitigations
12.30	Giza-Unistar-Nile Sugar
13:30	Lunch

Hall E127 (Protection System)

m:	Paper		Session Chairmen	
Time	code	Prof. Nabil. H. Abbasy- Prof. Hasan Shaaban		
	01A1	Preventive maintenance	role in minimizing the sy	stem failure in Alexandria
Session	UIAI	Electricity Distrib	ution Company (AEDC), D	Dr. Amani Ibrahim Attia
starts	01A2			me for Transmission Lines
at	UIAL	Ahmed R. Adly Dr.	Ragab A. El Sehiemy	Almoataz Y. Abdelaziz
15:00		Simulation of Distance R	elay for Load Encroachm	ent Alleviation with Agent
13.00	01A3	В	ased Supervision of Zone	e-3
		Eng. Mohamed A. Badr	Nabil H. Abassy	Emtethal N. Abdallah
	Break 15 minutes			
Time	Paper		sion Chairmen (Optimiza	
Time	code		oud El-Gammal -Prof. Gö	<u> </u>
	01A4	,	9	omic power dispatch problem
Session	UIAT			llah Eng. D. Abdel Fatah
starts	01A5	_		eving Full System Observability
at				n Nabil. H. Abbasy
16:15		Multi-phase Fuzzy-based N	•	Combined Cycle Gas Turbine
10.13	01A7		Plants	
				. El Sehiemy Kamal M. Shebl
		Security Constrained Unit C	•	ted Power Systems by Seeker
	01A8		Optimization Algorithm	
		Sahar S.Kaddah	Ragab A. El Sehiemy	Eng. Alaa A. Zaky

Hall E124 (Thermo fluid)

		Han L124 (Thermo nata)		
Time	Paper	Session Chairmen		
Tille	code	Prof. Alaa Shibl -Prof. Kamal A. Ibrahim		
	02B1	Numerical Analysis For U-Shaped Borehole Heat Exchanger		
Session	UZDI	Eng. Shaimaa Hefny Ibrahim Prof. Dr.Medhat Sorour Prof. Dr.Osama El-Masry		
starts	02B2	Shooting Method as a Proposed Technique to Solve Heat transfer Problems		
	0202	Prof. M. G. Wasel		
at 15:00		Electricity Generation in Gas Pressure Reduction Process by Using Turbo-		
13.00	02B3	Expander in West Delta Power Stations		
		Dr. Mohamed Kandil Abdel-Hady		
Break 15 minutes				
(Refrigeration and Air Conditioning)				
Time	Paper	Session Chairmen		
Time	code	Prof. Osama Elsamni- Prof. Wael Amoghlany		
	Solar Cooling, Status and Perspectives			
	02C1	Prof. Björn Palm, KTH		
Session	02C2	Simulation of District Cooling Plant and Efficient Energy		
starts	UZCZ	Prof. Mousa M. Mohamed Mohammed H. Almarshadi		
at		Challenges Encountered in Using the Vapor Compression Refrigeration System		
16:30	02C3	for Cooling Steam Plant Condenser		
		Dr. Khaled Yousef Abraham Engeda Ahmed Hegazy		
	02C4	EER Improvement for Unitary Air Conditioner (UAC) in Egypt, Prof. Alaa Shibl		

Hall E215 (Solar Energy)

Time code Prof. Mohamed Abdel Halim Hasb- Prof. Mohammed El Kassabi Efficiency Enhancement in Dye-sensitized Nanocrystalline Solar Cell by Mechanical Compression Session Starts at 15:00 O2A6 Role of Dyestuff in Improving Dye-Sensitized Solar Cell (DSSC) Performation Ahmed A. Mohamed Role of Dyestuff in Improving Dye-Sensitized Solar Cell (DSSC) Performation Ahmed A. Mohamed	ned		
Session starts at 15:00 Role of Dyestuff in Improving Dye-Sensitized Solar Cell (DSSC) Performa	ned		
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Role of Dyestuff in Improving Dye-Sensitized Solar Cell (DSSC) Performa	nce		
Ahmed A. Mohamed <u>Chem.Yehia Selim</u>			
Factors Affect Dye Sensitized Solar Cells performance			
Prof.Ahmed A. Mohamed Yehia Selim			
Break 15 minutes			
Time Paper Session Chairmen			
code Prof. Kadry I. Montasser and Eng. Bahaa ElAdly	Prof. Kadry I. Montasser and Eng. Bahaa ElAdly		
(Saving Energy in Building)			
Bibliotheca Alexandria Shifts To Energy Efficiency Lighting Systems			
Session Rinam Abdel Hamid Eng. Fand Monamed Snamandy			
opportunities of Energy Saving in Lighting Systems For Public Building	_		
16.15 Eng.Ayman Abd El-khalek Kamelia Youssef Ibrahim Yas	ssin		
Energy Efficiency Opportunities in Hotels			
Eng. Dina M.Said Kamelia Youssef Hatem Wah	eed		
03D15 Green Building between Tradition and Modernity			
Elshimy .H , Eng Nadia Samir , Moemen mohamed ezz el din			

Hall E212 (Architectural Energy Saving)

		man 2212 (memeeetarar Energy Saving)	
Time	Paper	Session Chairmen	
Time	code	Prof. Hassan Abdel Salam- Prof. Ramadan Abdel Maksoud	
	03D5	Low-Carbon Communities between Vision and Implementation	
	บรบร	The Case of Borg Al Arab, Dr. Riham Nady	
Session	03D3	Sustainability and Energy Value of Heritage Buildings	
starts at	0303	Associate Prof. Dalia A. Elsorady	
15:00	03D8	Exploring the importance of employing bio and nano- materials for efficient	
	0300	buildings construction, Dr. Mona Naguib, Mohamed El Fakharany	
	Break 15 minutes		
Paper	Paper	Session Chairmen	
code	ode code Prof. Hassan Abdel Salam- Prof. Ramadan Abdel Maksoud		
		Sustainable Biomimic Approach in Green architecture, Architectural applications	
	03D9	inspired by nature	
		Pakinam Nabil Ibrahim Barakat Eng. Nourhane M. Ali Hassan el Haridi	
	0204	Dynamic Facades	
Session	03D4	Environmental Control Systems for Sustainable Design, Dr. Riham Nady	
starts at	03D12	Towards Sustainable School Buildings: Methods and Techniques used for	
16:15	03D12	Controlling Natural Lighting and Ventilation, Dr. Marwa N. Charkas	
	03D13	High performing building envelopes, Folke Björk	
	03D14	Towards a zero carbon Alexandria. Eng. Mona M. Salem Mary A. Zekry	

Day 3 (Monday 3rd of October, 2016)

TI:	Keynote session chairmen
Time	Prof. Alaa Shibl - Prof. Ahmed Hegazy
	Keynote 11
	Prof. Mark Howells, KTH
	African Energy Renaissance - An Immense Investment, Technology and
Voymotos Sossion	Sustainable Development Prospect
Keynotes Session starts at	Keynote 12
9:00	Prof. Yohannes Kiros, KTH
9.00	Production of H ₂ and Its Use in Fuel Cells
	Keynote 13
	Prof. Alexis Pontvik, KTH
	Sustainable Urban Form- Implementation of Sustainability
10:30	Coffee Break
	Chairmen Prof. Mahmoud El Gammal - Prof. Yohannes Kiros, KTH
	Keynote 14
	Prof. Hisham El Shimy, PUA, Green Housing
Keynotes Session	Keynote15
starts at	Prof. Göran Engdahl, KTH
11:00	Electric Power Component Design
	Keynote 16
	Prof. Klas Engvall, KTH, (Video Conference)
	Trends in Thermochemical Conversion of Waste and Biomass
12:30	Break

Hall E127 (PUA Student Project)

Time	Paper	Session Chairmen
Time	code	Prof. Ahmed Abdallah Mohamed- Prof. Mohamed Abdel Rahman
Session	SSE1	PV Solar Cells and Its applications/ Eng. A.A.Abbas
starts	SSE2	How to build your own Dye- Sensitized Solar Cell(DSSC)/ Eng. M.M.Y.Mariy
at	CCM1	Utilizing Landfill Gas Produced at Al- Hammam Town for Electrical Energy
13:00	SSM1	Desalination Salt Water, Eng. Mohamed Ali Hammad.

Hall E124 (Energy Management / Energy Consumption of Electric Vehicles)

Time	Paper	Session Chairmen			
	code	Prof. Dr.Osama El-Masry - Prof. Mohammed Taimeh			
Session	03B2	Application of the Fuzzy Computational Intelligence in Power Quality Data			
		Management, Dr. Hoda Farag			
	03B3	Energy Saving Feasibility Study Using a Concentrating Solar Power Plant for			
starts		Borg El-Arab International Airport. Egypt.			
at 13:00		Eng.Ahmed E. Abdelrazik	Mostafa S. Hamad	Ahmed A. Helal	
	02D2	The Impact of Variable Flux Permanent Synchronous Machines on			
		Energy Consumption of Electric Vehicles, Dr. Maged Ibrahim			

Hall E215 (Constructional Energy Saving)

Time	Paper	Session Chairmen				
Time	code	Prof. Hassan Ghassooli- Prof. Prof. Bahaa Eldin A. Elsharnouby				
Session starts at 13:00	03D1	Development a Type of Sustainable Self-Healing Concrete Using Bacteria and				
		Different Organic additives				
		Eng. Shiren O. Ahmed Ass. Prof. Rateb N. Abbas Prof. Mag	gdy A. Zahran			
		Ass. Prof. Amal A. Nasser Prof. Monir M. Kamal				
	03D10	Concrete Pavement Reduce Energy Consumption				
		Prof. Saad Elhamrawy Marwa Waly				
	03D11	Power Generation Using Waste Heat Recovery by Organic Rankine Cycle and				
		Steam Rankine Cycle in Cement Industry				
		Eng. Omar Aboelwafa Tamer S. Ahmed Ahmed F. Soliman Ibr	rahim M. Ismail			

Hall E212 (Reliability)

Time	Paper	Session Chairmen		
	code	Prof. Adel Ali Abou El-Ela- Prof. Ahmed Ramadan		
Session starts at 13:00	01B1	Development of Reliability Indices for Electric Distribution Network in Egypt		
		Eng. Eman Ahmed Eng. Sherein Al	bdualla	Kamelia Youssef and Hatem Waheed
	01B2	Reliability Improvement of Power Distribution Systems using Advanced		
		Distribution Automation		
		Eng. M. R. Elkadeem	M. A. Alaa	m Ahmed M. Azmy
	01B3	DG-Allocation Based on Reliability, Losses and Voltage Sag Considerations		
		An Expert System Approach.		
		Dr. Sahar Abdel Moneim Mous	ssa	Ayman Abdelwahed

Time	Chairman Prof. Björn Palm	
14:00	Closing Session E127	