



نقابة المهندسين الأردنيين  
Jordan Engineers Association



## Scientific Program

المؤتمر الأردني الدولي للطاقة

Jordan International Energy Conference (JIEC 2011)

Organized by: Jordan Engineers Association (JEA)

Amman, Jordan  
September 20-22, 2011



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**Day 1, Tuesday, September 20, 2011**

8:00 – 10:00 AM	Registration	
10:00 – 11:00 AM	Opening Ceremony Under the Patronage of H.E. Prime Minister	
	Royal Anthem	السلام الملكي
	Holy Quran	القرآن الكريم
	Organization Committee Chairman Speech	كلمة رئيس اللجنة التحضيرية
	President of Jordan Engineers Association Speech	كلمة نقيب المهندسين الاردنيين
	Patron Speech	كلمة راعي الحفل
	Exhibition Opening	افتتاح المعرض
11:00 – 11:30 AM	Coffee Break	استراحة

عريف الحفل: م. بشار البيطار



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Day 1, Tuesday, September 20, 2011

11:30 AM – 12:30 PM	<b>Keynote Lecture : (Global Energy Future)</b> <b>H.E. Dr. Hisham Al Khatib</b>  <b>(Chairman: H.E. Eng. Wa'el Sabri)</b>	
12:30 – 1:00 PM	Coffee Break	استراحة

1:00 – 3:00 PM	Session 1-A (Hall Petra) Chairman: د. محمد زهيره Co-Chair: Eng. Omar Suwieti	Session 1-B (Hall Rum) Chairman: H.E. Mr. Abbass Al Naqi Co-Chair: Eng. Fathi Rawashdeh
1:00-1:15 PM	محمد الولاد الطاقات المستنفدة والطاقات المتجددة النظيفة	T. Awadallah S. Habet A. Green Building Guideline of Jordan Mahasneh H. Adas
1:15-1:30 PM	م. فوزي خريط الربط الكهربائي العربي	Ayoub Abu Dyeh Jordan Potentials In Green Building Solutions: Kamaliyya Residence As A Case Study
1:30-1:45 PM	فاضل محمد خلف افاق المستقبلية للكتلة الحيوية للطاقة المتجددة في نور حسن راضي العراق و الامة العربية	Mohammed Daher Comparing Green Structures With Different Thermal Efficiency Designs
1:45-2:00 PM	م. أحمد نبويه الدهني اثر التشريعات والانظمة في نجاح الاستثمار في مجال الطاقة، التجربة الاردنية	Siba A. Awawdeh1, Chris Buildings' Energy Efficiency And Tweed Building Energy Codes: A Literature Review
2:00-2:15 PM	مازن خليفة احصائيات الطاقة	Hussein Abaza Feasibility Analysis Of Initiating Building Information Modeling (BIM) For HVAC Systems By General Contractors
2:15-2:30 PM	حامد الطراونة الطاقة والتكامل البيئي	Iana altaweel, Ahmed Abu Potential Of Energy Saving In Jordanian Bokha Residential Sector
2:30-2:45 PM	م. أدهم سبع العيش استعمال المواد العازلة الشفافة لتدفئة المباني بالطاقة الشمسية	Fayez G. Aldawi Firoz Alam A Smart House Wall Energy Performance Hazim Moria Ashwin Date Study for Arid Climatic Region
2:45-3:00 PM		Aliakbar Akbarzadeh The Positive Effects Of Green Roofs on Environment
3:00-4:00 PM	Lunch	



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**Day 2, Wednesday, September 21, 2011**

8:00 – 09:00 AM	Registration	
9:00 AM – 09:45 AM	Keynote Lecture: <b>(Sustainable energy technologies and their reliable implementation in the real world)</b>  Prof. Li Shao  (Chairman: Dr. Ahmed Freewan)	
9:45 AM – 10:30 AM	Keynote Lecture: <b>(Energy and Environment)</b> H.E. Mr. Abbass Al Naqi  (Chairman: H.E. Dr. Hisham Al Khatib)	
10:30 – 11:00 AM	Coffee Break	استراحة



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## Day 2, Wednesday, September 21, 2011

11:00 – 1:00 AM	Session 1-A (Hall Petra) Chairman: Dr. Ghaleb Maabreh Co-Chair: Eng. Adham Sabi El-Eish	Session 1-B (Hall Rum) Chairman: Eng. Abdel Fattah Al Nsoor Co-Chair: Eng. As'ad Atwan
11:00 – 11:15 AM	F. Elakrmi N. Abu Shikhah Electricity Load Forecasting – Science and Practices	Makbul m. Anwari, Modeling and Simulation of Grid-Connected PV/Wind Power System
11:15 – 11:30 AM	Mamoun Shehadeh The Technical & Economical Impacts of the Upgraded Simple Cycle Gas Turbines Operating on LFO to Combined Cycle Mode Operating on Natural Gas	EGWIM E.C USMAN H.O Photovoltaic Module Performance And Durability Following 25-years of Field Exposure
11:30 – 11:45 AM	Ali Fadiel Ali Theoretical Investigation Of Combined Cycle Power Plant	F. M. Alawneh Annual Hourly Simulation for a Grid Connected PV System in Jordan – A Lab Experiment
11:45 – 12:00 PM	Nesreen Jezawi Wireless battery charger using energy harvesting	مؤسسة المرجع الهندسي: تيسير جميل FWAVE Solar Cells (Presentation)
12:00 – 12:15 PM	رجائي جبر تجربة شركة الكهرباء الوطنية في استثمار شبكة الألياف الضوئية "دروس وعبر"	Eng.Ala'a A Shalabi Renewable Energy secrets and caches in Jordan
12:15 – 12:30 PM	م. خالد الجندي Energy consumption management program in existing buildings	ايمن الشبيل نشاطات طاقة الرياح في الأردن
12:30 – 12:45 PM	Taufik Taufik Jameson Thornton Makbul Anwari Design and Simulation of Multiple Input DC-DC Converter for Piezoelectric Wind Harvesting	د. محمد زهيرة د. علاء الدين حسام الدين الاستثمار الاقتصادي لشبكات التوزيع الارضي
12:45 – 1:00 PM	Coffee Break	



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**Day 2, Wednesday, September 21, 2011**

1:00 – 3:00 PM	Session 1-A (Hall Petra) Chairman: Dr. Mohammad Boulad Co-Chair: Dr. Allan Khalil	Session 1-B (Hall Rum) Chairman: Eng. Abdel Kareem Alaween Co-Chair: Eng. Bashar Al-Bitar
1:00-1:15 PM	Ayoub Abu-Dayyeh هل الطاقة النووية مستدامة ونظيفة؟	Piotr F. Borowski Transportation development towards the energy independence and CO2 reduction
1:15-1:30 PM	الدكتور علي المر الطاقة النووية في الأردن	Ahmet Yucekaya Scheduling Compressed Air Energy Storage Systems
1:30-1:45 PM	Ashraf elsayed Egyptian Nuclear activities at research reactors , laboratories, and uranium production	Adel Alriyahi Improving the performance of Gas Power Stations by Using Fogging System
1:45-2:00 PM	Bashar M. Shweikeh The Peaceful Investment of Nuclear Energy Resources in Jordan	Osama Al-Habahbeh Reliability Prediction of a Return Thermal Expansion Joint
2:00-2:15 PM	Hasan Zidan Technology Based E-Management System	FAHMI MAHFOUD محرك الديزل ومستقبل توليد الطاقة الكهربائي
2:15-2:30 PM	Ashraf elsayed The use of laser in separation in minor actinides and heavy water D2O	HEDAYAT OMIDVAR Prospect of Iran Natural Gas Export Projects
2:30-2:45 PM 2:45-3:00 PM		Khaled Alnobani SN Patra UK Sarangi Contemporary Energy Concepts Enhancement of ESP performance of Thermal Power Plant : a controlling measure towards Environmental Sustainability
3:00-4:00 PM	Lunch	



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**Day 3, Thursday, September 22, 2011**

8:00 – 09:00 AM	Registration	
9:00 – 9:45 AM	Keynote Lecture : ( <b>Nuclear Waste</b> ) Mr. Hugh Abbots  (Chairman: Dr. Ayoub Abu-Dayyeh)	
9:45 – 10:30 AM	Keynote Lecture : (وضع الطاقة في فلسطين) Dr. Omar Kettaneh  (Chairman: Dr. Anas Al Tarabsheh)	
10:30 – 11:00 AM	Coffee Break	استراحة



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**Day 3, Thursday, September 22, 2011**

11:00 AM – 2:00 PM	Session 1-A (Hall Petra) Chairman: Prof. Li Shao Co-Chair: Eng. Fathi Rawashdeh	Session 1-B (Hall Rum) Chairman: Dr. Allan Khalil Co-Chair: Eng. Bassan Sonaa
11:00 – 11:15 AM	Jehad K. Abu-Dahrieh Angela Orozco David Rooney The Potential for Biogas Production from Grass	Allbban H. Khali Hussein Abaza d Utilization of Revit Applications as Preliminary Shop Drawings to Improve Construction processes
11:15 – 11:30 AM	Cosmin Marculescu Improved solutions for solid waste to energy conversion	Masumeh Sadat Latifi Simulation and Optimization of Heat Transfer in PBR Core
11:30 – 11:45 AM	Zahira Yaakob and others High-values molecules from microalgae	Farah Halek Mahmood Kazemzad Ali Kavousirahim Nano-MgO catalyzed production Of biodiesel from Non-edible Colza oil
11:45 – 12:00 PM	Fauziah Sulaiman and others Drying of Empty Fruit Bunches using a Solar Drying System	Vali.Kalantar Maryam.Zare Simulation of flow and heat transfer in 3D solar chimney power plants-numerical analysis
12:00 – 12:15 PM	C. Salame M. and others Biobutanol Production by Clostridium acetobutylicum NCIMB 13357 in Modified Medium using Date Fruit as a Carbon Source	A. Kaabi B. .SotehiO C. .Halloufi Stratification improvement in solar -storage tanks used in individuals and collective solar plants: Use of CFD code
12:15 – 12:30 PM	Z. Yaakob and others An Overview of Microalgae as a Wastewater Treatment	Phavanee Narataruksa and Other Conversion Enhancement of Pilot Scale Fixed Bed Reactor of Fischer-Tropsch Synthesis
12:30 – 12:45 PM	Seyed Hashem Shahin Rafiee Ali Jafari An analysis of energy use efficiency of soybean production under different farming technologies	C. Salame M. Eltahchi J. Sidawi An Integrated and Optimized National Domestic Energy Saving System
12:45- 1:00 PM	Seyed Hashem Shahin Rafiee Ali Jafari Sensitivity analysis of agrochemicals energy consumption and their environmental impacts; a case study of canola production in Iran	EGWIM E.C USMAN H.O Estimation Of Carbon Capturing Potential Of Spirogyra Spp. And Correlation To Its Growth Rate.
1:00-1:15 PM	Mutaz Al Muhtaseb , A. Alsalmeh potential of CSP as a source of energy in Jordan	Ashraf Elsayed Investigation techniques in ground water
1:15- 1:30 PM	Khulud Rahuma Under-Balanced Drilling; Remedy For Formation Damage, Lost Circulation & Other Related Conventional Drilling Problems In Agoco Sarir	Seyed Hashem, Shahin Rafiee, Ali Jafari, Ali Keshavarzi Developing an Artificial Neural Network model for predicting canola production in Iran
1:30-2:00 PM	<b>Closing Session</b>	
2:00-3:00 PM	Lunch	