



6th Global Conference on Renewables and Energy
Efficiency for DEsert Regions
(GCREEDER-2018)
April 3rd-5th 2018, Amman – Jordan



Venue: School of Engineering, University of Jordan

Day 1
Tuesday, April 3, 2018

A: Saeed Al-Mufti Auditorium
B: Middle Auditorium
C: Small Auditorium

8:30–10:00	Registration		
10:00-10:45	<p>Opening Ceremony under the patronage of HRH Prince Hamzah Bin Al Hussein</p> <ul style="list-style-type: none"> Verses from the Holy Quran Welcome Speech by the Chairman of the Organizing Committee, Prof. Ahmed Al-Salaymeh Welcome Speech by the President of the University of Jordan, Prof. Azmi Mahafzah Speech by the Minister of Energy and Mineral Resources, Dr. Saleh A. Al-Kharabsheh Speech by the Minister of Higher Education and Scientific Research, Prof. Adel Tweissi <p>Honoring Ceremony HRH Prince Hamzah Bin Al Hussein presenting honor trophies to the conference sponsors and guests of honor</p>		
10:45 -11:30 Coffee Break and Exhibition Tour			
<p>Session 1-A Keynote Speakers Session I</p> <p>Chairman: Prof. Ahmed Al-Salaymeh Rapporteur: Dr. Osama Ayadi Coordinator: Eng. Leena Marshdeh</p>			
Time	#	Paper Title & Author	Country
11:30 – 12:00	Keynote Speaker	Prof. Martin Kaltschmitt, Director of Institute for Environmental technology and Energy industry (TUHH) Energy Systems in Transition – Driver, Developments and Challenges	Germany
12:00-12:30	Keynote Speaker	Eng. Walid Shahin, Director of National Energy Research Center (NERC) Overview of Energy Status in Jordan	Jordan
12:30 – 12:50	Invited Speaker	Ms. Shahrazad Far, Bonn International Center for Conversion (BICC) Participatory approaches to energy planning in developing and transition countries: Balancing local impact sensitivity with national development goals. Insights from MENA SELECT Project: Cases of Jordan, Morocco and Tunisia	Germany
12:50 – 13:10	Invited Speaker	Dr. Rasmi Hamzeh, General Director Jordan Renewable Energy & Energy Efficiency Fund (JREEEF) Socio-Economics Impact of Renewable Energy and Energy Efficiency of JREEEF Projects in Jordan	Jordan
13:10-13:20	Discussion		



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13:20-14:30 Lunch Break			
Session 2-A			
<p>Chairman: Prof. Suhil Kiwan Rapporteur: MSc. Sebastian Timmerberg Coordinator: Eng. Amer Mkahal</p>			
Time	Paper #	Paper Title & Author	Country
14:30-14:45	1201	REDESIGN AND DEVELOPMENT OF POWERED BURNER MIXING HEAD Hosni I. Abu-Mulaweh and Donald W. Mueller	USA
14:45-15:00	1103	Validated TRNSYS Model for Solar Water Heating System Nidal Abdalla	Jordan
15:00-15:15	0107	Potential of Shale Gas in the Sedimentary Basins of South East Asia Region A. El-Sakka, G.M. Hamada, and E. Padmanabhan, A.M. A. Salim	Malaysia
15:15 – 15:30	0221	Combined CSP – PV plants for MENA Region Daniel Benitez, Andreas Kazantzidis, Ahmed Al-Salaymeh, Sofiane Bouaichaoui, AmenAllah Guizani	Spain
15:30 – 15:45	0214	Comparison Between Solar Inverters Available In The Palestinian Market R. Amro, Y. Qudimat, R. Torman and Batoul Al-Zeghari	Palestine
15:45 – 16:00	0513	Statistical Assessment and Analysis of the Determinants of the Electric Energy Consumption in the Residential Sector in Jordan A. Badran, M. Ghandoor and N. Alobaidi	Jordan
Session 2-B			
<p>Chairman: Prof. Hussain H. Alzoubi Rapporteur: Prof. Omer Badran Coordinator: Eng. Otbah Oran</p>			
Time	Paper #	Paper Title & Author	Country
14:30-14:45	0211	Life-Cycle Assessment of Power-to-Liquid Fuels for an Environmental Sound Transportation (Comparative Study) M. Alhyari, A. Al-Salaymeh, M. Irshidat, M. Kaltschmitt and U. Neuling	Germany Jordan
14:45-15:00	0408	Potential of using Off-grid PV/Wind/Diesel Battery Hybrid Energy System in Jordan R. Al-Rashed, T. Faza, A. Gatasheh, O. Ayadi	Jordan
15:00-15:15	0510	Energy Audit of Elreha Manufacturing Factory in Zarqa Free Zone H. Abu Tayeh, A. Jbour, E. Maayah, L. Abu Hussein, and B. Qawasmeh	Jordan



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15:15 – 15:30	0223	Design of stand-alone PV-PEMFC Hybrid System under Amman Climate W. Nsour, T. Taamneh, O. Ayadi J. Al Asfar	Jordan
15:30 – 15:45	0212	The Impact of Energy Source on the Life-Cycle Assessment of Power-to-Liquid Fuels M. Alhyari, A. Al-Salaymeh, M. Irshidat, M. Kaltschmitt and U. Neuling	Jordan
15:45 – 16:00	0405	Performance Comparison of Manual Single Axis Sun-Tracking Photovoltaic (PV) with Fixed System PV Panels in Jordan L. AbuHussain, M. Musa	Jordan

Session 2-C

Chairman: Dr. Ibraheem Abu Alshaikh
Rapporteur: Dr. Mohammad Alrbaee
Coordinator: Eng. Reem Daraeen

Time	#	Paper Title & Author	Country
14:30-14:45	0227	Enhancing the Performance of a Roof-Type Solar Still Utilizing Alumina Nanoparticles and Vacuum Pump Mohammad Hamdan, Eslam Mutlq and Jamil Al Asfar	Jordan
14:45-15:00	0807	Wind Energy Environmental and Social Impact- Case Study: Mass Jordan Wind Farm Project N. Alsukkar, B. Qawasmeh	Jordan
15:00-15:15	0226	High Voltage Ride Through - Case Study: Tafilah Wind Farm N. Alsukkar, B. Qawasmeh	Jordan
15:15 – 15:30	0234	Model Validation for a Photovoltaic System in Jordan Rami Al-Assad, Osama Ayadi, and Jamil Al Asfar	Jordan
15:30 – 15:45	0407	Optimal Off-Grid Hybrid Renewable Energy System for Residential Applications Using Particle Swarm Optimization Osama Abuzeid, Amjad Daoud, Mahmoud Barghash	Jordan
15:45 – 16:00	0507	Demand Side Management and its Possibilities in Jordan N. Tawalbeh, A. Al-Salaymeh and H. Samaha	Jordan

Session 2-D

EGREEN
STC Meeting EGREEN (I)

Chairman: Prof. Ahmed Al-Salaymeh
Rapporteur: Ms. Hanan Hasan

Time	Activity
14:30-16:00	STC Meeting EGREEN



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Session 2-E



VTC Workshop

Location: Tempus Hall, Fourth Floor Above Chemical Eng. Dept.

Chairman: Dr. Riyadh Qashi


Coordinator: Eng. Tahani Sudqi

Time	Activity		
14:00 – 16:00	Training on “USE OF DIGITAL PLATFORMS IN TEACHING” Mr. Eleutério Silva, Portugal		
16:00 – 16:30 Coffee Break			
Session 3-A			
Chairman: Dr. Ahmad Sakhrieh			
Rapporteur: Dr. Nabeel Abu Shaban			
Coordinator: Eng. Nour Jbour			
Time	Paper #	Paper Title & Author	Country
16:30 – 16:45	0302	Analytical study for optimizing Energy performance in Office Building Envelopes by a Multi-Objective Mathematical Model, Case study: Amman, Jordan Yara M. Al Manaseera, Hussain H. Alzoubib, Mustafa Z. Ali	Jordan
16:45 – 17:00	1202	Experimental Investigation of Oil Shale Pyrolysis Utilizing Solar Thermal Energy M.I. Alamayreh, T. AbdelHadi, E. Al-Khatib, A. Oweimer, H. Nassar	Jordan
17:00 – 17:15	0229	Proposed CSP Plant at The University of Jordan Alaa Rawashdeh and Jamil Al Asfar	Jordan
17:15 – 17:30	0222	Experimental and theoretical study for Wind Energy Unit H. Abu Samaha, F. Dawoud, B. Al- Qalab and O. Ayadi	Jordan
Session 3-B			
Chairman: Dr. Louy Qoaidar			
Rapporteur: Dr. Malek Amayreh			
Coordinator: Eng. Amani Kamal			
Time	Paper #	Paper Title & Author	Country
16:30 – 16:45	0209	Tidal Energy Potential in Jordan M. Mryan, M. Abdalla, and A. Al-Salaymeh	Jordan
16:45 – 17:00	0210	Temperature Effect on the Performance of Different Solar Cell Technologies J. Adeeb, A. Farhan, and A. Al-Salaymeh	Jordan
17:00 – 17:15	0111	AI-GHABAWI LANDFILL A. Al-Slehat, B. Al-Gallab, N. Zahran and A. Al-Salaymeh	Jordan



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17:15 – 17:30	0509	Ground Source Heat Pump (GSHP) Implementation In Jordan: Potential Energy Saving Study Hadeel Al. Sallal, Nour Abu.Shuaib, Abdelrahman Al. Thaher and A. Al-Salaymeh	Jordan
Session 3-C			
<p>Chairman: Prof. Mohammad Hamdan Rapporteur: Dr. Mutaz Al-Muhtaseb Coordinator: Lecture Kholoud Hassouneh</p>			
Time	#	Paper Title & Author	Country
16:30-16:45	0228	Operation Strategy for the Jordanian Power System Comprised from Conventional and Renewable Energy Systems Mohammad K. Al-Smadi, A. Al-Salaymeh, and Emad A. Lehyeh	Jordan
16:45-17:00	1405	Study Kinetically the Corrosion Process of Some Household Alloys by Sea Water at Different Temperatures A. Wazwaz, A. Al-Hkmani, M. Tabook, and K. Al-Mishaikhi	Oman
17:00-17:15	1407	Kinetic Study of the Corrosion of Some Household Alloys by Tap Water at Different Temperatures A. Wazwaz, N. Qahoor, F. Al Mashani, S. Akaak, and T. Al Rawas	Oman
17:15-17:30	0604	Corrosion Study for Some Metal Alloys Used in House Ware Tools Under Different Conditions at Dhofar University A. Wazwaz, E. Bait Rajab, S. Bait Suwilam, Amnah Almashani, and Z. Alshari	Oman
17:30-17:45	0804	Removing Heavy Metals Using Different Types of Soils and Marble Powder In Oman A. Wazwaz, A. Al Jassasi, A. Al Balushi, and A. Al Saifi	Oman
17:45-18:00	1406	Study Kinetically the Corrosion of Some Household Alloys by Distilled Water at Different Temperatures A. Wazwaz, A. Al Rahbi, H. Alamri, W. Alkahali, and H. Alhuseini	Oman
Session 3-D			
 STC Meeting EGREEN (II)			
<p>Chairman: Prof. Ahmed Al-Salaymeh Rapporteur: Ms. Hanan Hasan</p>			
Time	Activity		
16:30-18:00	STC Meeting EGREEN		



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Day 2

Wednesday, April 4, 2018

A: Saeed Al-Mufti Auditorium
B: Middle Auditorium
C: Small Auditorium

**Session 4-A
(EGREEN)**

Chairman: Prof. Salman Ajib
Rapporteur: Dr. Ali Alahmar
Coordinator: Eng. Qatada Damra

Time	Paper #	Paper Title & Author	Country
9:00 - 9:15	0101	Study for Supplying Literature Faculty in Tishreen University By Photovoltaic Energy Prof. Shoaib Mahmoud, Eng. Ibrahim Ahmad	Syria
9:15 – 9:30	0102	Design and construction of biogas unit and operating it to utilize the produced gas to generate electrical power to cover the needs of a Fedeo cow farm at Lattakia city. Ghaith Qanjrawi, Moussa Alsamara	Syria
9:30 – 9:45	0231	Airborne Particulates Prof. Ahmed AlMahmoud , Dr. Nadia Khedr	Syria
9:45 – 10:00	1402	Study of the oil mill wastewater (OMW) treatment Using membrane bioreactor (MBR) A.Ghata; H.Ali; A.Dachyl; Sh.Al-Melhem	Syria
10:00 – 10:15	1410	The reality of wastewater treatment and its use for agricultural purposes in Syria Prof. Moussa Al- Samara; Dr. Amal Dayoub	Syria
10:15 – 10:30	0202	Numerical and Analytical Modelling of Induction Heating in Silica Gel/Methanol Adsorption Cold Production System Majd Ali, Salman Ajib, Christian Karcher and Ulrich Lütcke	Germany

**Session 4-B
(DESIRE)**

Chairman: Prof. Ala'aldeen Al-Halhouli
Rapporteur: Prof. Mousa Al-Samara
Coordinator: Eng. Rasha Albaik

Time	Paper #	Paper Title & Author	Country
9:00 - 9:15	0506	Socioeconomic Impact of Renewable Energy on Rural Community in Jordan - Shams Ma'an W. Nsour, A. Al-Salaymeh, L. Qoaidar and Th. Fink	Germany Jordan



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9:15 – 9:30	0601	JOB CREATION OF RENWABLE ENERGY IN JORDAN Mohammad Fayiz, Mohammad Qasem, Ahmed Al-Salaymeh, Louy Qoaidar and Thomas Fink	Germany Jordan
9:30 – 9:45	0602	The Potential of Solar Industrial Process Heating (SIPH) in Jordan: Socio-economic study N. Al-Mansi, M. Al-Refaie, Al-Salaymeh, L.Qoaidar and T.Fink	Germany Jordan
9:45 – 10:00	0610	Assessment Study of the Environmental and Socio Economic Impact on Tafila Wind Energy Project A. Sarsak, T. Faza', and A. Al-Salaymeh	Germany Jordan
10:00 – 10:15	0802	Environmental Impact of Renewable Energy Implementation on Human Health, and Well-being M. Qomsiya, A. Farhan, A. Al-Salaymeh, L. Qoaidar, and T. Fink	Germany Jordan
10:15 – 10:30	0503	Socio-economic Aspects of Biogas Projects in Jordan Lina Jarrar, Ahmed Al-Salaymeh, Louy Qoaidar and Thomas Fink	Germany Jordan

Session 4-C



METHODS Meeting

Chairman: Prof. Ahmed Al-Salaymeh

Rapporteur: Eng. Leena Marshdeh

Time	Activity
9:00 –10:00	METHODS Steering Committee Meeting
10:00–10:10	METHODS implementation at JUST <i>Prof. Fahmi Abu Al-Rub, and Eng. Rowaida Zoumot</i>
10:10–10:20	METHODS implementation at HU <i>Prof. Ahmad Al-Khassawneh</i>
10:20 –10:30	METHODS implementation at ZUJ <i>Dr. Loai Dabbour, Eng. Eman Abdelhafez</i>

Coffee Break
10:30 -11:00

Session 5-1-A

Chairman: Prof. Yousef Zurigat

Rapporteur: Dr. Philipp Hauser

Coordinator: Eng. Rebhi Maashaleh

Time	Paper #	Paper Title & Author	Country
11:00 – 11:15	0235	Techno-economic assessment of synfuel production from renewable energies in Jordan Sebastian Timmerberg, Martin Kaltschmitt	Germany



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11:15 – 11:30	0230	Estimation of the optical properties of clouds, aerosols and forecasting of direct normal irradiance from all-sky images Andreas Kazantzidis, Panagiotis Tzoumanikas, Vassilios Salamalikis, Stefan Wilbert, Pascal Kuhn, Philippe Blanc	Greece Spain France
11:30-11:45	0114	Challenges of the Natural Gas Markets in Europe in the Con-text of Energy Transition Philipp Hauser	Germany
11:45-12:00	0115	Energy Transition in the Mena Region: Which energy path-ways are countries taking? Matthew Schmidt	Germany
<p>Session 5-B (DESIRE)</p> <p>Chairman: Dr. Jamil Al-Asfar Rapporteur: Dr. Sameh Al-Sqoor Coordinator: Eng. Nouf Hyari</p>			
Time	Paper #	Paper Title & Author	Country
11:00-11:15	-	Overview about DESIRE project Prof. Ala'aldeen Al-Halhouli	Jordan
11:15-11:30	-	Market need analysis for renewable energy Dr. Gabriella Calderari	Italy
11:30-11:45	0504	Innovative solutions for Renewable Energy & Energy Efficiency in Jordan Farah Dawoud, Abeer Jbour, Ahmed Al-Salaymeh, Louy Qoaidar and Thomas Fink	Germany Jordan
11:45-12:00	0803	The Environmental and Economy Impact of using alternatives Fuels in Jordan Z. Smadi, A. Al-Salaymeh, and L. Qoaidar, T. Fink	Germany Jordan
<p>Session 5-2-A Keynote Speakers Session 2</p> <p>Chairman: Dr. Saleh Okour Rapporteur: Dr. Hashem Al-Khalidi Coordinator: Eng. Mohammad Fayez</p>			
Time	#	Paper Title & Author	Country
12:00 – 12:25	Keynote Speaker	Nuclear Power Plant Engineering and Components Analysis Professor Muhammad Afzal Khan	Pakistan
12:25 – 12:50	Keynote Speaker	Parametric study of aerodynamic performance enhancement on unconventional airfoils Dr. Najdat Nashat	Iraq
12:50 – 13:00	Discussion		



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Session 5-C



METHODS Training Workshop

Chairman: Prof. Ahmed Al-Salaymeh

Rapporteur: Eng. Leena Marshdeh

Time	Activity
11:00-11:40	Modern Educational Methodologies with Case Study <i>Dr. Wasel Ghanem (BZU, Palestine)</i>
11:40-12:20	A Case Study on the Application of Modern Educational Methods in Delivering Undergraduate Engineering Courses at the University of Jordan <i>Prof. Lutfi Al-Sharif (UJ, Jordan)</i>
12:20-13:00	Educational Portal (MethodsX) and Future Trends toward Improving Teaching and Learning in Jordan and Palestine <i>Dr. Wasel Ghanem (BZU, Palestine)</i>

13:00-14:00

Lunch Break

Session 6-A

Multiple EU Funded Projects Workshop (I)

Chairman: Prof. Ahmed Al-Salaymeh

Rapporteur: Eng. Leena Marshdeh



Time	Activity
14:00-14:15	EU Funded Projects and Their Impact on Higher Education in Jordan Prof. Ahmad Abu- EL-Haija, Director of National Erasmus+ Office
14:15 – 14:30	Dissemination and Implementation Lecture for “METHODS” Dr. Wasel Ghanem (BZU, Palestine)
14:30 – 14:45	Dissemination and Implementation Lecture for “EGREEN” Prof. Ahmed Al-Salaymeh (UJ, Jordan)
14:45 – 15:00	Dissemination and Implementation Lecture for “MediTec “ Dr. Riyadh Qashi (HTWK, Germany)
15:00 – 15:15	Dissemination and Implementation Lecture for “INVENT” Prof. Fahmi Abu Al-Rub (JUST, Jordan)
15:15 – 15:30	Dissemination and Implementation Lecture for “VTC” Dr. Ziad Abu El-Rub (GJU, Jordan)



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Session 6-B (EGREEN)			
Chairman: Dr. Loai Dabbour Rapporteur: Dr. Muna Hindyeh Coordinator: Eng. Haneen Saadeh			
Time	Paper #	Paper Title & Author	Country
14:00-14:15	0103	Production of organic fertilizer and energy from sewage sludge from the treatment plant in Salameh-Hama-Syria Prof. Moussa Alsamara, Dr. Bushra Nema, Dr. Omiema Nasser	Syria
14:15 – 14:30	0502	Optimal Energy Management for an Isolated Microgrid Using an Advanced Dynamic Programming Ammar Hajjar, Issam Hussamo, Hussam Aldin Rassouk	Syria
14:30 – 14:45	0104	Design and implementation of a three-phase sine wave converter using SPWM, variable output voltage and frequency with a solar charger based on maximum power point tracker of solar radiation MPPT Dr. Moussa AlSamara, Dr. Fouad Jabal, Ali Mahmoud	Syria
14:45 – 15:00	1411	The impact of the current crisis on agriculture and food security in Syria Prof. Moussa Al- samara Dr. Amal Dayoub	Syria
15:00 – 15:15	0105	The introduction of renewable energy criteria for construction method selection in concrete buildings commensurate with the requirements of reconstruction in Syria Dr. Bassam Hasan; Eng. Madonna Beshara; Eng. George Alsamara	Syria
15:15 – 15:30	1409	Utilization of secondary agricultural products produced by olive presses (peat water, pyrene) As a renewable energy source Prof. Moussa Al-sammara, Dr. Bushra nema, Dr. Amal Dayoub	Syria
Session 6-C HYMENSO Workshop			
Chairman: Dr. Osama Ayadi Rapporteur: Eng. Tahani Almalki			
Time	Activity		
14:00-17:00	Practical Training on Greenius Software Eng. Daniel Benitez, and Dr. Andreas Kazantzidis		



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Session 6-D



ENEPLAN Workshop

Location: Department of Architecture Engineering

Chairman: Dr. Nabeel Al-Kurdi

Rapporteur: Eng. Fedaa Al-Qasem

Time	Activity
14:00-15:30	Concept Mapping Using C-Map Cloud Tools Eng. Qatada Damra and Eng. Sameeh Rayyan

15:30-16:00
Coffee Break

Session 7-A

Multiple EU Funded Projects Workshop (II)

Chairman: Prof. Fahmi Abu Alrub

Rapporteur: Eng. Fedaa Al-Qasem



Time	Activity
16:00-16:15	Dissemination and Implementation Lecture for "CCSAFS" Dr. Ibraheem Al-Tahat, (Jerash University, Jordan)
16:15 – 16:30	Dissemination and Implementation Lecture for "ENEPLAN" Dr. Ali Al-Maqousi, (University of Petra, Jordan)
16:30 – 16:45	Dissemination and Implementation Lecture for "mEQUITY" Prof. Mohammad Hawa, (UJ, Jordan), and Dr. Jazz Rasool (Ravensbourne, UK)
16:45 – 17:00	Dissemination and Implementation Lecture for "DESIRE" Prof. Ala'aldeen Al-Halhouli (GJU, Jordan)
17:00-17:15	Dissemination and Implementation Lecture for "FoodQA" Prof. Anas Al-Nabulsi (JUST, Jordan)
17:15-17:30	Dissemination and Implementation Lecture for "HEBA" Dr. Gabriella Calderari (UNIROMA1, Italy), and Dr. Osama Ayadi (UJ, Jordan)
17:30-17:45	Dissemination and Implementation Lecture for "SEM-SEM" Prof. Omer Maaitah (MUTAH, Jordan), and Dr. Amr Elbanhawy (Egypt)



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Session 7-B

Chairman: Prof. Osama Abu Zaid

Rapporteur: Dr. Feras Sharaf

Coordinator: Eng. Manar Alhajji

Time	#	Paper Title & Author	Country
16:00-16:15	0218	Challenges of Integrating a Small Hydropower Plant at Existing Mujib Dam N. Al-Shnynat , M. Bani Ata and A. Al-Salaymeh	Jordan
16:15-16:30	0201	ESTIMATION OF POWER PRODUCED BY PV GENERATOR USING DATA MINING: A CASE STUDY Nabeel Aboshaban, Eman Abdelhafez, Mohammad Hamdan, Maram Saber and Ahmad Al Aboushi	Jordan
16:30-16:45	0219	Automatic Domestic Stove Using Olive Cake Fuel J. Al Asfar, L. Mazahreh	Jordan
16:45-17:00	0511	Model for Energy Management Education from Sustainability in Society J.P. Paredes-Sánchez, C. Álvarez-Peña, Ahmed Al-Salaymeh	Spain Jordan
17:00-17:15	0611	Levelized Cost of Energy of On-Grid PV System with Battery Storage in Jordan M. Bani Mustafa, A. Al-Salaymeh, M. Saidan, and H. khasawneh	Jordan
17:15-17:30	1403	Case study of water desalination using renewable energy K. Masmoudi, A. Alshawabkeh, RJ. Mustaklim and MA. Maraqa	Tunisia



Day 3
Thursday, April 5, 2018

A: Saeed Al-Mufti Auditorium
B: Middle Auditorium
C: Small Auditorium

Session 8-A

Chairman: Dr. Ibrahim Odeh
Rapporteur: Eng. Hilal Abu Zahra
Coordinator: Eng. Farah Dawoud

Time	Paper #	Paper Title & Author	Country
9:00-9:15	0806	Integrating the spatial planning with the energy planning (The case study of Zarqa University) B. Zalloom	Jordan
9:15-9:30	0111	The Effect of Using Naphthalene and Local Soil with Concrete Mixture on Thermal Conductivity, Case of Mafraq City – Jordan Hussain H. Alzoubi, Duha J. Al-Olaimat	Jordan
9:30 – 9:45	0508	Measurement of electricity produced by Photovoltaic Panels for household consumption: a case in Amman city, Jordan Firas Sharaf	Jordan
9:45 – 10:00	0233	Decentralized installation of Photovoltaics to reduce the necessity of grid extension – Case Study for Amman Daniel Christ, Martin Kaltschmitt	Germany
10:00 – 10:15	0301	A Comparative Study for the Traditional and Modern Houses in Terms of Thermal Comfort and Energy Consumption in Um Qais city, Jordan Hussain H. Alzoubi, Amal Th. Almalkawi	Jordan
10:15 – 10:30	0232	Smart PV-L.E.D. Street lighting System Suhil Kiwan, Adnan AlQasem, and Anwar Abu Mosali	Jordan

Session 8-B


Chairman: Prof. Zayed Hammare
Rapporteur: Dr. Hussam Khassawneh
Coordinator: Eng. Arwa Sandouqa

Time	Paper #	Paper Title & Author	Country
9:00- 9:15	0606	Life-Cycle Energy Analysis of Jojoba Biodiesel in Jordan Arwa Sandouqa, Zayed Al-Hamamre	Jordan
9:15 - 9:30	1404	Modeling and Analysis the Productivity of Solar Desalination Units with Phase Change Materials Hasan Mousa and Ashish M. Gujarathi	Oman
9:30 - 9:45	1301	DESIGN AND OPERATION OF WES / FC HYBRID ENERGY SYSTEM INTERCONNECTED WITH UG Prof. Dr. Hassan H. EL-Tamaly, Eng. Sultan I. EL-Agamy	Egypt
9:45-10:00	0805	Optimization of biomass combustion properties by autoclave pre-treatment Marvin Scherzinger, Martin Kaltschmitt	Germany



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10:00 - 10:15	0112	Hydrodynamics, Heat and Mass Transfer Analysis during Coating of Rings in a Spouted Bed Nader Aljabarin, Andrzej Kmiec, Ali Alahmer, Sameh Alsaqoor	Poland Jordan
10:15 -10:30	0225	Liquid Pre-Vaporized Biofuels Combustion A. Sakhrieh	UAE
Session 8-C			
<p>Chairman: Prof. Hamzeh Dweiri Rapporteur: Dr. Ali Al-Hadidi Coordinator: Eng. Jumana Tanbour</p>			
Time	Paper #	Paper Title & Author	Country
9:00-9:15	0205	Design of a PV System for the 420 m2 Villa in Abu-Naseer, Amman, Jordan M. Bahlawan	Jordan
9:15-9:30	0402	Design and Optimization of a PV System Integrated with Diesel Generator as a Back Up for The University of Jordan M. Bahlawan	Jordan
9:30 – 9:45	0110	Oil Shale in Jordan: Overview, and Social Acceptance of The New Project M. Bahlawan	Jordan
9:45 – 10:00	1408	A green and sustainable solution to fast food packing waste in Amman A.A. Ramanathan	Jordan
10:00 – 10:15	0512	Feasibility Assessment of An Integrated Solar Combined Cycle Power Plant In Jordan: The Case Of An ISCCs In Samra Electric Power Company A. Badran, A. Al-Ahmad	Jordan
10:15-10:30	0403	Integration of Large Solar Power Plants With The Saudi Electricity Grid: Case Study For A Saudi Arabian Region Fahad S. H. Al Aegl and Ali A. Badran	Jordan
Session 8-D			
			
STC Meeting DESIRE (I)			
<p>Chairman: Prof. Ala'aldeen Al-Halhouli Rapporteur: Eng. Nouf Al-Hyari</p>			
Time	Activity		
09:00-10:30	STC Meeting DESIRE		



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<p>Session 8-E</p>  <p>mEQUITY Workshop (I) Location: School of Educational Sciences</p>			
<p>Chairman: Prof. Mohammad Hawa Rapporteur: Eng. Fedaa Alqasem</p>			
Time	Activity		
09:00-10:30	<p>Creating & Editing Educational Videos Using Camtasia Studio (9) Dr. Jazz Rasool (Ravensbourne, UK)</p>		
<p>Coffee Break 10:30 – 11:00</p>			
<p>Session 9-A</p>			
<p>Chairman: Prof. Mahmoud Irshadat Rapporteur: Dr. Bashar Qawasmeh Coordinator: Eng. Manar Hajji</p>			
Time	Paper #	Paper Title & Author	Country
11:00-11:30	Invited Speaker	<p>H. E. Eng. Malek Kabariti Energy Background in Jordan</p>	Jordan
11:30-12:00	Invited Speaker	<p>Dr. Nadejda Komendantova, International Institute for Applied Systems Analysis (IIASA) Participatory Governance of Energy Transition in Jordan</p>	Austria
12:00-12:30	Keynote Speech	<p>Mr. Bernard A.J. Stroïazzo-Mougin, CEO and Founder of Bio Fuel Systems (BFS) The reconciliation between Energy and Environment with Decarbonated Energy</p>	Spain
12:30-12:45	0607	<p>Modeling analysis in energy sector in Egypt Yasser Saad Mohamed</p>	Egypt
12:45-13:00	0113	<p>Quality of Life Nexus Energy Dr.-Ing. Hani El Nokrashy</p>	Germany
13:00-13:15	0220	<p>Aspects of Wind Energy in Kuwait B. AlMutairi and A. El-Hamalawi</p>	UK
13:15-13:30	0217	<p>Impact of Connecting Renewable Power Plants on the Dynamic Voltage Response and Low Voltage Ride Through (LVRT) Capability Al-Shaima' R. Jaber, Rawan A. Hamaideh</p>	Jordan



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Session 9-B

Chairman: Dr. Ahmad Awwad
Rapporteur: Dr. Abdullah Olimat
Coordinator: Ms. Zaineh Al-Saoudi

Time	#	Paper Title & Author	Country
11:00-11:30	0206	Stem Technology Initiative by Sahara Solar Breeder Project: Chemistry and Electronics of Oxides as Stem Material for Future Energy and Environment A. Boudghene Stambouli, S. Flazi, H. Koinuma	Algeria
11:30-11:45	0406	On-Grid Solar Energy System - A Study case in Irbid Mohammed AL-Mahmodi, Ayman AL-Quraan	Jordan
11:45-12:00	1104	Energy Storage and its impact on Grid Stability Al-Shaima' R. Jaber, Rawan A. Hamaideh	Jordan
12:00-12:15	1102	A comparative study of heat transfer coefficient and compressive strength of rubberized concrete with silica fume and metakaolin as additives Hussain H. Alzoubi, Shatha S. Abusini	Jordan
12:15-12:30	0224	Potential household energy savings with solar rooftops in Jubeiha-Amman M. W. Aqra and A.A. Ramanathan	Jordan

Session 9-D



STC Meeting DESIRE (II)

Chairman: Prof. Ala'aldeen Al-Halhouli
Rapporteur: Eng. Nouf Al-Hyari

Time	Activity
11:00-13:00	STC Meeting DESIRE

Session 9-E



mEQUITY Workshop (II)
Location: School of Educational Science

Chairman: Prof. Mohammad Hawa
Rapporteur: Eng. Fedaa Alqasem

Time	Activity
11:00-13:00	Camtasia Educational Platform Dr. Jazz Rasool (UK)



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Session 10-A

Panel Discussion and Closing

Chairman: Prof. Ali Badran

Rapporteur: Dr. Osama Ayadi

Time	Activity
13:30-14:15	Panel Discussion: Prof. Ahmed Al-Salaymeh, Prof. Suhil Kiwan, Dr. Iyad Sartawi, Dr. Yousef Al-Abdallat, Dr. Ibrahim Odeh, and Eng. Waleed Shahin
14:15-14:30	Closing
14:00-15:30 Lunch Break	