



جامعة المملكة  
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Tamkeen

# WREC Conference Program

Tuesday 14 January 2025:

HALL- D

09:30 – 10:30		<b>OPENING CEREMONY</b>
10:30 – 11:00		<b>Coffee Break</b>
HALL - D		
11:00 – 12:20		<b>PLENARY – 1, Chair: Prof. Hussain Khadhem Alwaeli – Sohar Oman University</b>
Done	11:00 – 11:20	<b>Photovoltaic Application will be a reality globally by 2030</b> Prof Ali Sayigh Chairman of WREC & Director General WREN, Brighton, UK
Done	11:20 – 11:40	<b>A Global Renewable Energy Target – Gamechanger for the Global Transformation towards Renewable Energy?</b> Mr. Rainer Hinrichs-Rahlwes Vice-President, European Renewable Energies Federation (EREF), Board Member, German Renewable Energy Federation (BEE), Berlin, GERMANY
Done	11:40 – 12:00	<b>Challenges Facing Renewable Energy Potential in The GCC Countries Due to Future Climate Change.</b> Waheeb E. Alnaser <sup>1</sup> , Naser W. Alnaser <sup>2</sup> , Ali Sayigh <sup>3</sup> and Hussein A. Kazem <sup>4</sup> <sup>1</sup> Centre of Environmental and Biological Studies, Arabian Gulf University, Bahrain. <sup>2</sup> Department of Architecture and Interior Design, University of Bahrain, Bahrain. <sup>3</sup> WREC - WREN, Brighton, England, UK. <sup>4</sup> Electrical and Computer Engineering, Sohar University, Oman.
Done	12:00 – 12:20	<b>Sources of error in the testing and evaluation of photovoltaic/thermal (PVT) systems</b> Dr. Ali H.A. Al-Waeli, Assistant Professor in AUIS, PhD in Renewable Energy
12:20 – 13:30		<b>Lunch Break</b>
HALL - D		
13:30 – 15:30		<b>PLENARY – 2, Chair: Prof Anastasia Zabaniotou</b>
Done	14:00 – 14:30	<b>Net-Zero Buildings: Opportunities and Challenges for Future Sustainable Development</b> Derya Oktay <sup>1</sup> <sup>1</sup> Faculty of Architecture and Design, Maltepe University Istanbul, TURKEY <sup>2</sup> School of Architecture, pratt Institute, Brooklyn, New York, USA
Done	14:30 – 15:00	<b>Financing of Energy Assets – Schemes and Stakes</b> Racha WYLDE
Done	15:00 – 15:30	<b>The effect of dust composition on the efficiency of photovoltaic module and determining the optimal cleaning methods in the Sultanate of Oman.</b> Hussein A. Kazem <sup>1</sup> , *, Miqdam T. Chaichan <sup>2</sup> , Waheeb E. Alnaser <sup>3</sup> , Lawrence Kazmerski <sup>4</sup> <sup>1</sup> Faculty of Eng, Sohar Univ, Oman, <sup>2</sup> Energy and Ren. Energies Tech Res Center, Univ Technology- Iraq, <sup>3</sup> Dept of natural Res and Environment, College of Graduate Studies, Arabian Gulf University, Kingdom of Bahrain, <sup>4</sup> Rene and Sus Energy Inst, Univ of Colorado, USA
Done	15:30 – 16:00	<b>Public open spaces Design as a chatayst for community awareness Climate Change Impications and awareness</b> Sherif Elwagees, Kindom University, Bahrain
15:30 – 16:00		<b>Coffee Break</b>
HALL - D		
16:30 - 17:45		<b>PLENARY – 3, Chair: Dr Ali Al-Waeli</b>
Done	16:00 – 16:15	<b>Renewable Energy in MENA: Insights from Saudi Arabia, Algeria, Morocco, Egypt, and Jordan</b> Noura Karray,, Mounir Bouzguenda, Adel Ben Ahmed Dept. of Economics, College of Business Administration Dept. of Electrical Engineering, College of Engineering King Faisal University, Al Ahsa, 31982, KSA
Done	16:15 – 16:30	<b>Offshore Wind Energy Improved Technology: A Potential Solution for Bahrain's Energy Security and Sustainability</b> Prof Abdul Salam K Darwish University of Bolton, Manchester, UK
Done	16:30 – 16:45	<b>Digital transition in higher education for the experience of DIGITAL DECATLON Competition to Cooperation partnerships in higher education</b> Antonella Trombadore*, Gisella Calcagno*, Giacomo Pierucci*, Matteo Bertelli* *University of Florence Architectural Department, Florence, Italy
Done	16:45 – 17:00	<b>Biomimetic methods used for BIPV-PCM/EG system thermal regulation enhancement</b> Ming Jun Huang <sup>1</sup> , Gerard Obasi <sup>1</sup> , Neil J. Hewitt <sup>1</sup> <sup>1</sup> Belfast School of Architecture and the Built Environment, Ulster University, UK <b>(No power point because of Copy rights)</b>
Shift to 15/01 /2025	17:00 – 17:15	<b>Spatial suitability model for the best locations of solar power plants using geographic information systems</b> Prof Abbas Al-Tayeb Babiker Mustafa, & Abdulelah Adel Rashed Alrasheed Dept. of Geography - College of Arts - King Faisal Univ. - Kingdom of Saudi <b>Shifted to tomorrow</b>
Didn't come	17:15 – 17:30	<b>Legal Issues of Financing Renewable Energy Projects by Islamic Finance</b> Dr. Soliman Mohamad Alhamed <sup>1</sup> *, Dr. Ali Salem Almarri <sup>2</sup> <sup>1</sup> , Assist. prof of Private Law, College of Law, King Faisal Univ., Saudi Arabia. <sup>2</sup> Assoc. prof. of Private Law, College of Law, King Faisal Univ. Saudi Arabia.
done	17:30 – 17:45	<b>AI – Driven Renewable Energy Optimization: Predictive Anylitics for Enhanced Energy Efficiency</b> Marwa Assim, Sara Sharif, Fatma Nazeera, Riya Sharfraz, Masarra Mouafak





# WREC Conference Program

## PROGRAMME

**Wednesday 15 January 2025**

### HALL- D

09:00 – 10:30		PLENARY – 4, Chair: Prof Peter Farrell
1 Done	09:00 – 09:20	<b>High Temperature Heat Pumps for Industrial Applications</b> Professor Neil J Hewitt Ulster University, Belfast School of Architecture & The Built Environment, Belfast, Northern Ireland, UK
2 Done	09:20 – 09:40	<b>Renewable energy district heating: the work of LoT-NET and the Warwick case study.</b> Prof. R E Critoph, Dr R Moss School of Engineering, University of Warwick, UK
3 Done	09:40 – 10:00	<b>Transition towards a Carbon Free City Districts</b> Prof. DSc Dr Dorota Chwieduk Institute of Heat Engineering, Faculty of Power and Aeronautical Engineering Warsaw University of Technology, Warsaw, Poland
10:30 – 11:00		Coffee Break

## HALL – D

<b>11:00 – 12:40</b>		<b>PLENARY – 5, Chair: Prof Salam Darwish</b>
1 Done	11:00 – 11:30	<b>Environmental Design and Urban Development: Applied Research in Waterloo</b> Marco Sala - University of Florence, Florence, Italy
2 Done	11:30 – 12:00	<b>Sustainable Solutions at Times of Transition: From Linear to Circular.</b> Prof Anastasia Zabaniotou Dept of Chemical Eng., Aristotle Univ. of Thessaloniki, Thessaloniki, Greece
3 Done	12:00 – 12:30	<b>SUSTAINABLE AVIATION FUEL TECHNOLOGIES &amp; MITIGATING KEY CHALLENGES TO SAF TRANSITION</b> Mr Satya, Group Managing Director, Kuala Lumpur, Malaysia

**HALL – A**

<b>11:00 – 12:30</b>		<b>PLENARY – 6, Chair: Dr Hussein Kazem</b>
1 Done	11:00 – 11:15	<p><b>Spatial suitability model for the best locations of solar power plants using geographic information systems</b>                      Prof Abbas Al-Tayeb Babiker Mustafa, &amp; Abdulelah Adel Rashed Alrasheed Dept. of Geography - College of Arts - King Faisal Univ. - Kingdom of Saudi</p>
2 Done	11:30 – 11:45	<p><b>Towards the Characterization of Regional and Local Air Dust in the Arabian Gulf Region and Its Potential Effects on Public Health &amp; the Economy</b>                      Dr. Nidal Dahman 1‡,                      and Mrs. Nourah Alhajji</p>
3 Done	11:45 – 12:00	<p><b>A Passive Redirection of Solar Radiation by Micro Optics to Increase the Bifacial Gain of Photovoltaics</b>                      Helmut F.O. Müller, Prof. Dr.-Ing.,                      Green Building R&amp;D GmbH, Düsseldorf, Germany</p>
4 Done	12:00 – 12:15	<p><b>Investigation of the use of PCM as a solution for regulating indoor temperature fluctuation for residential housing in Hot arid climate.</b>                      Mohamed Ahmed Fouad Mahdy                      Dept. of Architectural Eng., College of Eng. and Design, Kingdom University, Bahrain</p>
5 Done	12:15 – 12:30	<p><b>Exploring Low-Energy Building Design in Bahrain: Retrofitting Active &amp; Passive Strategies in Residential Buildings</b>                      *1 Dr, Mahtab Asvar, 2 M.A. Avni Durga Hemanth, 3 Prof. Islam Hamdy Elghonaimy                      *1 Department of Interior Design, College of Eng &amp; Design, Kingdom Univ. Bahrain                      2 &amp; 3 Dept. of Architecture and Interior Design, College of Eng., Univ of Bahrain, Bahrain</p>
6 Done	12:30 – 12:45	<p><b>A Simplified Onshore Wind Turbine Structural Model</b>                      Mahmoud Jahjouh<sup>1</sup>, Nidal Dahman<sup>2</sup>, Abdulhameed Irhouma<sup>3</sup> and Hassan Aljaidah<sup>4</sup> University of Bahrain, Bahrain</p>

12:45 – 14:00

Lunch Break

## HALL- D

14:00 – 15:30		TECHNICAL SESSION – 1, Chair: Mr Rainer Hinrichs-Rahlwes		
1	14:00 – 14:10 Done	<b>Simplifying Building Thermal Modelling by Using Online Local Weather Data</b> Abdullah Zaheer <sup>1</sup> , Dr Zhengyu Lin <sup>2</sup> , Dr James Fleming <sup>3</sup> 1-Centre for Renewable Energy Systems Tech. (CREST), UK, 2-(CREST), Loughborough Univ., UK, 3-Loughborough University, UK		
2	14:10 – 14:20	<b>Use of Clean Energy Technologies in Improving Walkability, New Housing Developments and Oriented Towards Sustainable Future Energy Scenario</b> V.K. Sharma* and G. Braccio, Biorefinery and Green Chemistry, ENEA Research Centre Trisaia, Italy		
3	14:20 – 14:30 Done	<b>Identification, prioritization, and co-development of stakeholders for the transition towards Solar Energy Storage (SES) in Australia</b> Nikhil Jayaraj, School of Mark. & Manag., Faculty of Bus. and Law, Curtin Univ, Perth, Western Australia.	<b>Online Session (Recording)</b>	
4	14:30 – 14:40	<b>Adsorption technology for cooling applications: A review of evaporator behaviour and performance challenges</b> Mr Ibrahim J.M. Mwasubila College of Engineering and Tech., University of Dar es Salaam, Tanzania		
5	14:40 – 14:50	<b>Preparation, Characterization, and Performance Optimization of Cu<sub>2</sub>ZnSnS<sub>4</sub> (CZTS) Absorber Layer Deposited by Sol-Gel Spin Coating Technique.</b> S. Abdullahi, M. Momoh and A. U. Moreh, Department of Physics Usmanu Danfodiyo University Sokoto, Nigeria		
6	14:50 – 15:00	<b>The role of Grid-Connected RES and BSS Systems using PLL Techniques in Environmental Sustainability</b> Mohammad A. Bany Issa, Zaid A. Al Muala, Pastora M. Bello Bugallo* TECH-NASE Research Group, Department of Chemical Engineering Universidade de Santiago de Compostela, Spain		
7	15:00 – 15:10 Done	<b>Exploring ionic liquids as phase change materials in thermal energy storage for temperature control of photovoltaics</b> Katherine Bolger <sup>1</sup> , Anita Ortega <sup>1</sup> , Martin Esson <sup>1</sup> , P.R. Sarika <sup>2</sup> , Paul Nancarrow <sup>2</sup> and Sarah J. McCormack <sup>1</sup> 1 Dpt of Civil, Structural and Env Eng., Trinity College Dublin, Ireland 2Dept of Chemical & Biological Eng, American Univ. of Sharjah, United Arab Emirates	<b>Online Session</b>	
8	15:10 – 15:20 Done	<b>Adopting Biomimetic Principles from the Sunflower for Solar Panel Tracking</b> Cormac McCarthy, Atiq Ur Rehman & Sarah J. McCormack Dept of Civil, Structural and Env. Eng., Trinity College Dublin, Ireland		<b>Online Session</b>
9	15:20 – 15:30 Done	<b>Performance analysis of 3D printed Dome-shaped Luminescent Solar concentrators</b> Youn Le Roy, Anita Ortega, Sarah J. McCormack, Dept of Civil, Structural and Env. Eng., Trinity College Dublin, Ireland		<b>Online Session</b>

**HALL- A**

14:00 – 15:30		TECHNICAL SESSION – 2, Chair: Dr Amina Batakarawa	
1	14:00 – 14:10	<b>African University collaboration on renewable energy technology for distributed energy systems</b> Mr Ibrahim J.M. Mwasubila. College of Engineering and Tech., University of Dar es Salaam, Tanzania	
2	14:10 – 14:20	<b>Modelling the Impact of Uncoordinated Plug-In Electric Vehicles’ Charging Patterns on the Low Voltage Distribution Network</b> Tebogo Mongale, Kanzumba Kusakana, Patric Manditereza Dept. of Electrical, Electronic and Computer Engi.	
3	14:20 – 14:30	<b>Enhancing Indoor Air Quality for Residential Building in Hot Arid Regions</b> Prof. Dr Ghanim Kadhem Abdul Sada*, Dr Tawfeeq Wasmi M. Salih	
4	14:30 – 14:40	<b>Experimental investigations on dual tank energy storage system: A solar photovoltaic indoor clean cooking solution for Sub-Saharan Africa Jimmy Chacigaa, Denis Okelloa, Karidewa Nyeingaa, Ole Jorgen Nydalb</b> a Department of Physics, Makerere University, Kampala, Uganda. b	
5	14:40 – 14:50	<b>FEASIBILITY STUDIES ON WIND ENERGY POTENTIAL OF DAMATURU, YOBE STATE NIGERIA USING WEIBULL AND RALIAGH STATISTICAL DISTRIBUTION MODEL</b> <sup>1</sup> AMEH S.E, <sup>2</sup> MUSA A.J, <sup>1</sup> SHUAIBU A.Y and <sup>1</sup> JANGA A. A,	
6	14:50 – 15:00	<b>BIOGAS GENERATION POTENTIAL AND ITS ANALYSIS FROM COW DUNG CO DIGESTED WITH COMMONLY FOOD AND VEGETABLE WASTE FOUND IN DAMATURU, NORTH - EAST NIGERIA</b> ENGR. MUSA AHMED JATTO,	
7 Done	15:00 – 15:10	<b>INNOVATIVE 3D PRINTING TECHNIQUES FOR LUMINESCENT SOLAR CONCENTRATORS</b> Aaron Glenn <sup>1</sup> , Alan Keoghan <sup>1</sup> , Lizzie Collins <sup>1</sup> , Subhash Chandra <sup>2</sup> , Sarah J. McCormack	<b>Online Session</b>
8 Done	15:10 – 15:20	<b>Enhancing Photovoltaic Performance through Lens-Shaped Cast Glass Panels for Building Integrated Photovoltaics</b> Peter McGuire, Anita Ortega, Sarah J McCormack	<b>Online Session</b>
9 Done	15:20 – 15:30	<b>Optimising material selection for compound parabolic concentrators to enhance daylighting in buildings</b> Wai Qian Tham <sup>1</sup> , Subhash Chandra <sup>2</sup> , Brian Norton <sup>3</sup> and Sarah J. McCormack <sup>1</sup>	<b>Online Session</b>

10 Done	15:30 – 15:40	<b>Effect OF Copper Slag Additive on Mechanical Properties of Asphalt Mixure</b> Meran Mohamed Alnourag, Mustafa Aytakin, Nuha Alzayani
	<b>15:40 – 16:00</b>	<b>Coffee Break</b>

**HALL – D**

<b>16:00 – 17:30</b>		<b>TECHNICAL SESSION – 3, Chair: Prof Saad Darwish</b>	
1	16:00 -16:10	<b>The public's perception of renewable energy as a significant alternative for fossil fuels in Saudi Arabia - An overview of attitude toward renewable energy in the Riyadh area.</b> Khalid N. Alharbi <sup>1</sup> , Naif S. Almuqati <sup>2</sup> , Mohammed S. Alnafisah <sup>2</sup> , Latifah A. Shaber <sup>3</sup> , Khawla Almalahi <sup>2</sup> , Mohammed H. Almusawa <sup>2</sup> , Ahmad A. Alsaleh <sup>4</sup>	
2	16:10 – 16:20	<b>Do PV installations cause Pseudo Heat Island Effect?</b> Naser W. Alnaser <sup>1</sup> , Ghadeer M. Kadhem <sup>2</sup> and Waheeb E. Alnaser <sup>3</sup> ,	
3	16:20 – 16:30	<b>An experimental study on the impact of porous media in improving the heat transfer performance characteristics of photovoltaic-thermal</b> Amjad H. Hamzaw <sup>1</sup> , and Qahtan A Abed <sup>2</sup>	<b>Online Session</b>
4	16:30 – 16:40	<b>Transitioning to Sustainable Communities through Education and Integrated Design: Embracing AI, Technology, and Data</b> Dr Maryam Singery	
5	16:40 – 16:50	<b>Geopolymer concrete for low energy architecture. Reducing carbon emissions with industrial byproducts.</b> Amitha Varghese <sup>1</sup> , Assoc Prof Martin Anda <sup>1</sup> , Dr. Kuruvilla Mathew <sup>1</sup> , Maheswaran Arumugam <sup>1</sup> and Dr Nugroho Adi Sasongko	
6	16:50 – 17:00	<b>Impact of Indoor Environmental Temperature on Academic Performance of Students in the Tropical Climate</b> Uchenna Augustine Eberendu <sup>1</sup> , Stanley Nwabueze Osamor <sup>2</sup> and Chinedu Uchechukwu Oluigbo <sup>2*</sup>	
7	17:00 – 17:10	<b>Clean energy applications and their impact on the status of international powers</b> Dr. Alshaimaa <b>Mohamed Mahmoud Hassan</b> Dr. Mona Abdulaziz Almelhem Dr. Faieq Hassen Jasem	<b>Online Session</b>
8	17:10 – 17:20	<b>Uptake of Renewable Energy Integration and Electric Vehicles in Ireland.</b> Rehman A. U1*. Ortega, A1. McCormack, S. J1.	<b>Online Session</b>
9	17:20 – 17:30	<b>Exploring agrivoltaics for sustainable energy and agriculture in Ireland</b> Mikhail Vaganov & Sarah J. McCormack	<b>Online Session</b>
10	17:30 – 17:40	<b>A Novel String-based Mechanical Motion Rectifier for Power Take-off Systems for Energy Harvesting from Oscillatory Forces</b>	
11	17:40 – 17:50	<b>Public open spaces' design as a catalyst for communities' awareness of climate change implications and mitigation</b> Sherif Mohamed Elwageeh	



**HALL – A**

<b>16:00 – 17:30</b>		<b>TECHNICAL SESSION – 4, Chair: Prof Antonella Trombadore</b>	
1	16:00 – 16:10	<b>EXPLORING THE USE OF BIOBASED FATTY AMIDE AS A TETRAALKYLAMMONIUM SALT PRECURSOR FOR PEROVSKITE SOLAR CELLS: SYNTHESIS AND CYTOTOXICITY INVESTIGATIONS</b> N. M. Mustafa1, F.N. Jumaah2, N.A. Ludin1, M. Akhtaruzzaman1, N.H. Hassan3,4, A. Ahmad3,4, K.M. Chan5, M.S. Su'ait1*	
2 Done	16:10- 16:20	<b>Yoking Big Data Analytics to Predict Mental Health Issues from Social Media Activity - An Early Intervention Approach</b> *Dr Sadia Syed,	
3 Done	16:20 – 16:30	<b>Optimal Placement and Sizing of Charging Stations Considering EVs Battery Load in a Radial Power Distribution System</b> Ayaz Ahmad1, 2, Hameed Ullah2, Hafeez Ahmad2, Mohammed Abdulaziz Alaqil1, Sadiq Ahmad	
4	16:30- 16:40	<b>Operational Performance of Vestas 850 kW Wind Turbines in Bahrain's Coastal Environment</b> N. W. Alnaser 1, H.M.Albuflasa 2, E.A. Al-Kaabi 3 , W.E. Alnaser 4,	
5	16:40 – 16:50	<b>ALBA's Environmental, social, and governance (ESG) Journey: Leading Sustainable Aluminum Production</b> *Saad Darwish, Abdelrhman Meero, Ali Al Abqali, Kingdom	
6 Done	16:50 – 17:00	<b>PRODUCTION OF GREEN HYDROGEN IN MOROCCO FROM SOLAR AND WIND ENERGY: REALITY AND FEASIBILITY</b> Hassan NFAOUI*1, Faissal ELMARIAMI2 & Ali SAYIGH3,	
7 Done	17:00 – 17:10	<b>Modern Engineering Education in the Field of Renewable Energies Description:</b> Mr Mohammad Al Refaee	
8 Done	17:10 – 17:20	<b>Multifunctional phosphorescent layers for photovoltaic efficiency enhancement</b> Shaakirah Madhi 1, Subhash Chandra2 and Sarah J McCormack 1, 1 Dept of Civil, Structural and Env. Eng., Trinity College Dublin, Ireland 2Dept of Geology, School of Natural Sciences, Trinity College Dublin, Ireland	<b>Online Session</b>
9 Done	17:20 – 17:30	<b>Performance assessment and feasibility study of photovoltaic solar energy integration at the Trinity Technology &amp; Enterprise Centre</b> Arya Krishnan, Anita Ortega and Sarah J McCormack,	<b>Online Session</b>
10 DONE	17:30 – 17:40	<b>Structural Behavior of Bamboo Reinforced Concrete Domes</b> Prof.Wael Ibrahim, Prof. W.El-fattah, Dr. Amal Zamrawi, Eng. Mohamed Abdelrady, Dr. Samy Elbially	<b>Online Session</b>

## WREC Conference Program

### HALL – D

01:00 – 02:00		TECHNICAL SESSION – 5, Chair: Prof Saad Darwish
1 Done	01:00 – 01:10 Available	<b>Techno-Economic-Enviro Assessment Modelling Approach of Power Conductors as Net-Zero Decarbonization Enablers to Increase the Utilization of Renewable Energy Sources</b> M. A. AlAqil, Head of Electrical Engineering Department, Electrical Engineering Department, College of Engineering, King Faisal University, Saudi Arabia
2 Done	01:20 – 01:30 Available	<b>MoS2 Nanocomposites Prepared Using Surfactant and Au NP's for water splitting Hydrogen production</b> Shroq S. Laradhi 1, Shrouq H. Aleithan 2*, Kawther Al-Amer 1 1Dept. of Chemistry, College of Science, King Faisal University, Saudi Arabia 2Dept of Physics, College of Science, King Faisal University, Saudi Arabia
3 Done	01:50 – 02:00 Available	<b>Blue hydrogen production via sorption-enhanced steam methane reforming</b> Ahmad S. Farooqi <sup>1</sup> , Muhammad Z. Shahid <sup>1</sup> , Mohammad M. Hossain <sup>2</sup> , and Medhat A. Nemitallah <sup>1,3</sup> * 1 Interdisciplinary Research C. for Hydrogen Tech. and Carbon Manag., King Fahd Univ. of Petroleum & Minerals, Dhahran, Saudi Arabia 2Dept of Chem. Eng., King Fahd Univ. of Petroleum & Minerals, Dhahran, Saudi Arabia 3Aerospace Eng. Dept, King Fahd Univ. of Petroleum & Minerals, Dhahran, Saudi Arabia
4 Done	01:40 – 01:50 Available online	<b>Innovative Financing Mechanisms for Scaling Up Renewable Energy Project</b> Dr. Zakir Hossen Shaikh
5 Done	Waiting Presentation	<b>Performance optimization of eco-friendly Cs<sub>2</sub>NiI<sub>6</sub>-Based Double Perovskite Solar Cells through Device Modeling</b> Saad Ullaha, Firoz Khana*,
6 Done	01:30 – 01:40 Available	<b>Design and Performance Evaluation of Off-Grid Rooftop Solar PV system in Dammam, KSA.</b> Naif Al-Ibrahim <sup>1</sup> , Prof. dr hab. inż. Dorota Chwieduk <sup>2</sup> 1Al kurnaysh road, Al -Hamra, Dammam, Saudi Arabia 2Instytut Techniki Ciepłej, Politechnika Warszawska, Warszawa, Polska
7	Available	<b>Cloud-Based Monitoring for Thermal Expansion Mitigation in Power Transmission Systems</b>

Done	B. M. AlShakhs <sup>1</sup> , N. J. AlMulhim <sup>1</sup> , S. I. AlMarzouq <sup>1</sup> , R. M. AlDayram <sup>1</sup> , M. A. AlHamada <sup>1</sup> , S. A. AlOjayan <sup>1</sup> , M. A. AlAqil <sup>2</sup> , K. A. Aleid <sup>3</sup> <sup>1</sup> Dept. of Electrical Engineering, College of Eng, King Faisal Univ, Saudi Arabia
<b>02:00 – 02:15</b>	<b>CLOSING CEREMONY – Prof Ali Sayigh And Prof Nader Al-Bastaki</b>
<b>02:15 – 03:30</b>	<b>Lunch</b>