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CONFERENCE PROGRAM

29 November 2018, Thursday

08:00 -09:30	Registration	
09:30 –11:00	1PS01: Conference Opening Opening ceremony and speeches	
11:00 -11:30	Poster Presentations & B2B Meeting	gs / Networking Break – Refreshments
11:30 –13:00	10P01: PV CELL/MODULE DEVELOPMENT Session Chair: To be announced soon Fabrication and characterization of GalnNAs - based nipi solar cell Aqaqeldi Muhammetqulyyev, Baris Kinaci, Arto Aho, Yesim Yalcin, Caglar Cetinkaya, Furkan Kuruoglu, Mircea Guina, Ayse Erol Temperature mapping of PV modules Murat Aldemir, Ertan Arıkan, Çiğdem Besen Stabilization of copper solar cell contacts by spin coated titanium dioxide thin films Lyes Benharrat, Abderrahmane Moussi, Samir Meziani, Sofiane Chaouchi, Abdelkader Djelloul Fabrication and characterization of Nickel Oxide thin films for smart glass applications Yunus Emre Firat, Seyit Rıza Tokgöz, Ahmet Peksöz A New Hole Transport Layers in Perovskite Solar Cells for High Stability and Solar Efficiency Bayram Kilic Increasing the efficiencies of photovoltaic (PV) module via aluminium foam fins Fatih Bayrak, Hakan Fehmi Öztop	1SP01: Turkish Solar Market and R&D Studies Panelists: To be announced soon
13:00 -14:00	Networking Break	
14:00 –16:00	10P02: SOLAR ENERGY TECHNOLOGIES AND BUILDINGS Session Chair: To be announced soon Air Preheating For Air-Source Source Heat Pumps with Solar PVT For Comfort Indoor Heating And Cooling Birol Kilkis Experimental Study of Nanofluid Optical Properties with the Aim of Using in Direct Absorption Solar Collectors Majid Valizade, Mohammad Mahdi Heyhat, Mehdi Maerefa Improving Architectural Design for Energy Efficiency: Optimal Window and Shading Design for Southern Facades in Amman Heba Hisham Nazer, Ayoub Esa Abu Dayeh Advanced energy solutions at complicated buildings Yasemin Somuncu, Atilla Dönük, Selman Sağlam, Yunus Çerçi, Onur	1SP02: Rooftop Solar <u>Panelists:</u> To be announced soon

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An Enterprise Model For Low Carbon Strategy in Pool Buildings Using Solar

Mehmet Ziya Sogut, Arif Hepbasli, Tahir Hikmet Karakoc

Evaluation of energy efficiency of horizantal shading device integrated with photovoltaic panels

<u>Hatice Merve Yanardaq</u>, Gaye Gunaydin, Gulten Manioglu

The effect of hot water consumption profile on the long-term system performance of a residential solar hot water system | brahim Halil Yılmaz

Solar regulation in architecture with 3D fibrous production methods <u>Onur Kırdök,</u> Ayça Tokuç

16:00 -16:30

10P03: INDUSTRIAL SOLAR ENERGY APPLICATIONS

Session Chair: To be announced soon

Comparative techno-economic study of a solar thermal power plant using different technology and various capacities in the sub-saharan countries: case of the northern part of Cameroon <u>Alain Christian Biboum</u>, Ahmet Yılancı

Optimization of a molten salt concentrating solar power tower heliostat field: Case study for Adana | Ibrahim Halil Yılmaz

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16:30 -18:00

Enhancement of the thermal performance of a parabolic trough solar collector using wire coil inserts

<u>Aggrey Mwesiqye</u>, Ibrahim Halil Yılmaz, Taha Tuna Göksu

Gsm Relay Controlled Solar Thermal And Photovoltaics Supported Fruit Drying Cabinet Bartu Bugatur

An oil based indirect solar fryer for injera baking application <u>Mesele Hayelom Hailu</u>, Mulu Bayray Kahsay, Asfafaw Haileselassie Tesfay, Ole Jørgen Nydal

Development and implementation of low cost data logger for solar energy applications

Mehmet Ali Dayıoğlu, Ayten Onurbaş Avcıoğlu, Ufuk Türker

1SP03: Role of Local Authorities in Solar Future

Panelists:
To be announced soon

END OF FIRST DAY, SEE YOU TOMORROW... ☺

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30 November 2018, Friday

09:00 -11:00	20P04: PV SYSTEM/COMPONENT DEVELOPMENT Session Chair: To be announced soon Design considerations of photovoltaic transformer substation components for reliable operation Ilhan Gökçen Wavelet transform-based fault detection methods for PV-based distributed generators Gökay Bayrak Detection of Power Quality Disturbances in PV Generators Using Hilbert Transform Method Alper Yılmaz, Gökay Bayrak PID Control of a Parallel Mechanism Sun Tracking System by Microcontroller Mustafa Engin, Dilşad Engin Design procedure of 2 kWp on-grid photovoltaic power plant Nurlan Majidzade, Selim Köroğlu, Engin Çetin IEC 62446-1 PV powerplant certification and performance assessment Bengt Jaeckel, Ralph Gottschalg, Ali Eminel Comprehensive Overview of PV-DG Optimization in Power System Based on Solar Energy Resource Potentials Raimon O. Bawazir, Numan S. Cetin	2SP04: Alternative Models for Solar Energy Financing Panelists: To be announced soon
11:00 –11:30	20P05: SOLAR ENERGY AND ENERGY STORAGE	gs / Networking Break – Refreshments
11:30 –13:00	Session Chair: To be announced soon Review on Thermal energy storage for industrial solar applications – special focus on Turkey Burcu Koçak, Halime Ömür Paksoy Supercapacitor as an energy storage device: Current and future prospect Fikret Muqe Alptekin, Mustafa Çakır, Melih Soner Çeliktaş Energy storage market and suitable technology overview Ece Sürücü Duman Investigation of solar energy based large-scale energy storage systems for Turkey Ahmet Özarslan Effectiveness verification of hydrogen energy storage systems toward stable electricity supply with 100% renewable energy system Hanako Fujioka, Hiromi Yamamoto, Kunihiko Okano A Novel Thermochemical storage materials for domestic buildings Elamin Awad Ramadan Mohamed, Jo Darkwa, Siddig Adam Omer	2SP05: Media & Solar Energy <u>Panelists:</u> To be announced soon

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13:00 –14:00	Networking Break – Lunch		
14:00 –16:00	20P06: SOLAR ENERGY AND URBAN/RURAL DEVELOPMENT Session Chair: To be announced soon Constructing Solar Mapping for Yemen Country Raimon Omar Bawazir Solar powered vaccine refrigerator Waleed Sunjug, Ahmad Al Qawasimi, Osama Ayadi, Mahmoud Khader, Amr Mansour Assessment of solar energy production potential of buildings based on urban texture Halit Beyaztas, Gul Koclar Oral The impact of solar gain and daylight availability on building energy loads related to urban geometry Idil Erdemir Kocagil, Gül Koçlar Oral A solar based scenario analysis for Burdur, Turkey Doğancan Beşikci, Egemen Sulukan, Tanay Sıdkı Uyar Solar Community; A Sustainable Urban Cell Razieh Mohammadzadeh Architecture: the intermediate link between Sustainability and Solar Energy Razieh Mohammadzadeh PEM Fuel Cell Based Hybrid Energy System for Greenhouse Applications Ceren Ceylan, Yılser Devrim The Role of Renewable Energy Cooperatives in Rural Development: A Case Study Günnur Koçar, Ahmet Eryaşar, Sevim Özgül	2SP06: Energy Storage and Electrical Vehicles Panelists: To be announced soon	
16:00 -16:30	Poster Presentations & B2B Meeting	gs / Networking Break – Refreshments	
16:30 –18:00	20P07: SOLAR ENERGY, SOCIETY AND CLIMATE CHANGE Session Chair: To be announced soon Renewable energy solutions and Climate Change Effects in Municipalities of Turkey Aslı Harmanlı Olqun The effect of urban textures on buildings' solar gains and energy performances in the context of climate change Suzi Dilara Mangan, Gül Koçlar Oral An overview on the environmental impacts of photovoltaic panel production Beril Gündoğan Yağbasan, Günnur Koçar Investigation from agricultural perspective of areas selected for installation of solar power plant in Turkey Benginur Baştabak, Günnur Koçar Renewable energy, CO2 Emission and sustainable development in Middle East Countries and Iran Fatemeh Mahmonir Shahrtash Holistic Energy Management with Solar Energy For Integrated	2SP07: Operation, Maintenance and Insurance Panelists: To be announced soon	

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LET'S MEET IN SOLAR TR2020 @			
18:00 –18:30	Closing Ceremony and Remarks		
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	of new biocomposites Merve Uyan, Mustafa Çakır, Melih Soner Çeliktaş		
	The use of organic materials created by solar energy in the creation		
	Production Processes and Agricultural Basins Mehmet Ziya Sogut		