



PROGRAMME

4 September 2011 Sunday		
15:30-20:30 Registration		
5 September 2011 Monday		
08:00-09:00 Registration		
Opening Session		
09:00 - 09:10	Prof. Dr. Sümer Şahin	
09:10 - 09:20	Prof. Dr. Saffa Riffat	
09:20 - 09:30	Prof. Dr. H. Mehmet Şahin	
Plenary Session 1, Chairman: Dr. Ruzhu Wang		
09:30-10:00	The Role Of Exergy In Sustainable Energy Technologies	Prof. Dr. İbrahim DİNÇER Faculty of Engineering and Applied Science (UOIT) - Canada
10:00-10:30	Large-scale urban renewable electricity schemes - integration and interfacing aspects	Prof. Dr. Peter LUND Aalto Uni., Department of Engineering Physics/Advanced Energy Systems, Finland
10:30-10:50 Coffee Break		
Plenary Session 2, Chairman: Prof. Dr. İbrahim DİNÇER		
10:50-11:20	Heat and moisture recovery from ventilation air with membranes: from fundamentals to engineering applications	Prof. Dr. Lizhi Zhang (South China Uni. Of Tech. China)
11:20-11:50	An overview of the funding opportunities offered by the European Research Council	Aurelien Pitois (European Research Council, Brussels- Belgium)
11:50-14:00 CONFERENCE PHOTO-1 and LUNCH		
Parallel Session 1 (MARMARA Hall) “Nuclear Energy” Chairman: Dr. Abdul Waris		
14:00-14:15	Incineration of Nuclear Reactor Waste in LIFE Hybrid Reactor	Sümer ŞAHİN, H. Mehmet Şahin, Adem Acır (Atılım Uni. ,Turkey)
14:15-14:30	Utilization of Thorium in a Gas Turbine - Modular Helium Reactor	H. Mehmet Sahin, Özgür Erol, Adem Acır (Gazi Uni.-Turkey)
14:30-14:45	The Effects of Cathode Structure and Dielectric Type in an Inertial Electrostatic Confinement (IEC) Device	Erol KURT, Serdal Arslan (Gazi Uni. – Turkey)
14:45-15:00	Computational Analysis of Supercritical CO ₂ Brayton Cycle Power Conversion System for Fuson Reactor	Burhanuddin Halimi, Kune Y. Suh (Seoul National Uni. – Korea)
15:00-15:15	An Overview of IAEA Activities On Nuclear Hydrogen Production	Ibrahim Khamis (IAEA, Austria)
15:15-15:30	MYRRHA A Multi-Purpose Fast Spectrum Research Reactor	Hamid Ait Abderrahim, Peter Baeten, Didier De Bruyn, Rafaël Fernandez (SCK CEN -Belgium)
Parallel Session 1 (FIRAT Hall) “Sustainable Buildings” Chairman: Prof. Dr. Lizhi Zhang		
14:00-14:15	Vacuum Insulated Panels For Building Applications	Sultan Alotaibi, Saffa Riffat (Uni. Nottingham- UK)
14:15-14:30	Comparison Of The Application Of A Phase Change Material/Internal Wall Insulation System With Current	David Tetlow, Saffa Riffat, Yuehong Su (Uni. Nottingham –

	Systems For The Retrofit Of Hard To Treat Homes In The UK	UK)
14:30-14:45	Developing An Indoor Environment Quality Tool For Assessment Of Office Buildings In The UK	Matiwaza Ncube, Saffa Riffat (Uni. Nottingham – UK)
14:45-15:00	A Novel Vacuum Window System	Haoyang Liu, Xingxing Zhang, Riffat Saffa (Uni. Nottingham – UK)
15:00-15:15	Analysing the Demographic Structure of Immigration: An ICT based Architectural Approach	Burak Korkmaz (Yeditepe Uni. – Turkey)
15:15-15:30	Integrated Design of Zero Carbon Green Home in Korea	Sun Hye Mun, Yong Sang Yoon, Sung-En Shin (Korea Institute of Construction Technology - Korea)
15:30-15:45	Effect of Daylight Glare on Passive Design in Government Office Building	Fadli Arabi, Mohd Zin Kandar (Uni. Teknologi Malaysia - Malaysia)
Parallel Session 1 (SEYHAN Hall) “Computational Fluid Dynamics” Chairman: Prof.Dr. L.Berrin Erbay		
14:00-14:15	A Three-Dimensional CFD Simulation of Direct Methanol Fuel Cell for Portable Applications	Mohammad Hadi Akbari, Rasoul Asaee (Shiraz Uni. – Iran)
14:15-14:30	Thermal Performance of a Floor Heating and Cooling System With Air Heat Source by CFD Simulation	Satoru Ikee, Hiroshi Matsumoto, (Toyohashi Uni. of Technology - Japan)
14:30-14:45	Investigation of a Novel Magnetic Desiccant Ventilation System Using Computational Fluid Dynamics (CFD)	Auwal Muktar Dodo (Uni. of Nottingham – UK)
14:45-15:00	Investigation of Connection Types Impact on Panel Radiator Using CFD	Ismail Ekmekci, Emir Aydar (Marmara Univ. – Turkey)
15:00-15:15	CFD Modeling Of Small Scale Pellet Boilers: An Overview With Preliminary Results From a Simplified Approach	Joel Chaney, Jinxing Li, Hao Liu (Uni. of Nottingham – UK)
15:15-15:30	A Flexible Neural Network-Fuzzy Data Envelopment Analysis Approach for Location optimization of Solar Plants with Uncertainty and Complexity	Ali Azadeh, M. Sheikhalishahi, S.M. Asadzadeh (Uni. of Tehran – Iran)
15:30-15:45	Short-term optimal hydrothermal scheduling using ANN	Majed S. Al-Hafid, Abdul-Bary R. Sulaiman, Azher S. Al-Fahadi (Uni. of Mosul – Iraq)
Parallel Session 1 (CEYHAN Hall) “Wind Energy” Chairman: Aurelien Pitois		
14:00-14:15	Bending properties of multilayered non-interlaced e-glass/polyester composites for wind blade applications	Kadir Bilisik (Erciyes Uni. - Turkey)
14:15-14:30	Piezoelectric Wind Power Harnessing	Gülnehal Çevik, Mahmut F. Akşit (Sabancı Uni. – Turkey)
14:30-14:45	A FPGA based control implementation of a wind energy conversion system	Kadir Atilla Toker, Numan Sabit Çetin (İzmir Uni., Turkey)
14:45-15:00	Importance of examining weibull distribution fitting in determining wind power	Talha Arslan, Emin Açikkalp, Haydar Aras, Veysel Yılmaz (Eskisehir Osmangazi Uni., Turkey)
15:00-15:15	Feasibility study of offshore wind turbine installation for persian gulf	Ali Mostafaeipour (Yazd Uni.-Iran)
15:15-15:30	Feasibility study of harnessing wind energy from binalood area in Iran	Ali Mostafaeipour, Morteza Ghalishooyan, Mostafa Ghalishooyan (Yazd Uni., Iran)
15:30-15:45	Aerodynamic Modeling of Wind Turbine Blades and Linear Approximations	Mojtaba Mirhosseini, Ahmad Sedaghat, Ali Akbar Alemrajabi (Isfahan Uni. Technology – Iran)
Parallel Session1 (DİCLE Hall) “Bio-mass and bio-fuel” Chairman: Daming SUN		
14:00-14:15	Tracing ethanol fermentation by anaerobic bacteria using stable carbon isotope discrimination	Gang Seong Joo, Roh Heemyong (Seoul National Uni. – Korea)
14:15-14:30	Bio fuel as an alternative and clean enrgy option for growing	Raza Leghari (BUET, Khuzdar,

	energy demand in Pakistan	Pakistan)
14:30-14:45	Clean syngas and energy production with biomass using gasification in turkey	Mustafa Tolay, Cengiz Karaca, Ron Bailey (Mustafa Kemal Uni., Turkey)
14:45-15:00	Study on the performance of a solar assisted ground source heat pump heating system for a biogas reactor	Lei Yong, SHI Huixian, Zhu Hongguang, Pei Xiaomei, Guo Changcheng, Zhang Di (Tongji Uni. – China)
15:00-15:15	Experimental studies of flame stability limits of biogas flame	Wanneng DAI, Chaokui QIN (Tongji Uni. – China)
15:15-15:30	Biofuels- Fuel For The Future, Emerging Developments And Turkey's Position in The Future: A Research From The Single Refinery of Turkey	Funda Çetin, Ahmet Murat Yıldırım (TÜPRAŞ, Turkey)
15:30-15:45	Optimisation of Hybrd First/Second Generation Biofuel Supply Chains	Özlem Akgül, Nilay Shah, Lazaros Papageorgiou (Uni. College London-UK)
Parallel Session 1 (HEYBELİ Hall) “Hydrogen Production” Chairman: Prof. Asfaw Beyene		
14:00-14:15	Microaerobic Dark Fermentative Hydrogen Production By The Photosynthetic Bacterium Rhodobacter Capsulatus JY91	Mona Abo-Hashesh, Patrick Hallenbeck (Université de Montréal – Canada)
14:15-14:30	Hydrogen Production From Water-Splitting Reaction Over NiO/NaTaO ₃ Photocatalyst Prepared By Hydrothermal Method	Ien-Whei Chen, Chih-Hao Tan Lang-Yu Chiou (Taiwan)
14:30-14:45	Direct Decomposition of Methane And Steam Reforming	Merve Ozirk, A. Derya Deniz (Hacettepe Uni., Turkey)
14:45-15:00	Hydrogen production via autothermal reforming of methanol in a microchannel	Mohammad Hadi Akbari, Mehdi Andisheh-Tadbir, S.M. Abbaspour (Shiraz Uni. – Iran)
15:00-15:15	Numerical Simulation of Methanol Steam Reforming in a Microreactor	Mohammad Hadi Akbari, Mehdi Andisheh, Mohammad Abbaspour (Shiraz Uni. – Iran)
15:15-15:30	A study of the Co-W activated Ni cathodes for hydrogen generation	Snezana Miulovic
15:45-16:00 Coffee Break		
Parallel Session 2 (MARMARA Hall) “Hydrogen Energy Applications” Chairman: Dr Ahmet Alper Aydin		
16:00-16:15	Recent developments in low-grade steam power cycles	Faisal Albatati, Saffa Riffat (Uni. of Nottingham – UK)
16:15-16:30	Exergoeconomic analysis and optimization of a solar assisted ground-source heat pump anaerobic digester heating system	Huixian SHI (Tongji Uni. – China)
16:30-16:45	Circulation Composition of CO ₂ +Ethane Refrigerant Mixtures in Cascade Refrigeration System	Nasruddin Yusuf Rodjali, Putra Temagangka Indra, Darwin Rio Budi Syaka, M.Idrus Alhamid (Uni. of Indonesia - Indonesia)
16:45-17:00	Brief Introduction of Cool Dry Quiet Desiccant Dehumidification	Jia Jing (Trane, China)
17:00-17:15	Thermal Conductivity of Backfilling Materials For Horizontal Ground Heat Exchanger	Byonghu Sohn, Jihae Wi, Chulho Lee, Hangseok Choi (Korea Institute of Construction Technology - Korea)
17:15-17:30	Conduction Controlled Freezing of PCMs in Cylinders	Subrahmaniyam Susarla, A Garapati, S.K. Susarla, S.N. Repalle (Stanley College of Engineering & Technology - India)
17:30-17:45	Investigation of Hydrogen Usage in Aviation Industry	İlker Yilmaz, Mustafa İlbaş, Murat Taştan, Cevahir Tarhan (Erciyes Uni. Gazi Uni. – Turkey)

Parallel Session 2 (FIRAT Hall) “Energy Saving ” Chairman: Mustafa Tolay		
16:00-16:15	Energy Savings and Optimisation Studies on Ships for a Better Performance and Cleaner World	Alper Kilic, Adem Guleryuz (Istanbul Technical Uni., Turkey)
16:15-16:30	Analysis on the saving effect of power plant construction from peak load shaving under smart grid	Young-Shin Jeon, Young-Chang Kim and Hyung-Taek Kim (Ajou Uni., Suwon, Korea)
16:30-16:45	Role of Cogeneration Systems in Sustainability of Energy	Uğur Çakır, Kemal Çomaklı (Bayburt Uni., Turkey)
16:45-17:00	Computational Prediction of “Optimum Convective Heat Transfer Coefficient of Air of a Room” and Effect of Thickness of Concrete	Mabi Abri Lavasani, Amin Engarnevsi, Majid Amidpour, Hadi Jafari (Ferdos Ave., Iran)
17:00-17:15	Statistical Evaluation of Worldwide Sustainable Energy Production	Z. Canan Girgin (Yıldız Tech. Uni. - Turkey)
17:15-17:30	Benchmarking Of OECD Countries By Different Energy Efficiency Measurement Approaches	Mehmet ÜNSAL, Hasan BAL, H. Hasan ÖRKÇÜ (Gazi Uni. – Turkey)
17:30-17:45	PETKİM energy saving studies	Dilek Celenk Akıncı, Sadi Şenocak, Ali Hikmet Unalan (Petkim Petrochemical Inc.– Turkey)
Parallel Session 2 (SEYHAN Hall) “Bio-fuel Applications” Chairman: Dr. Simon Jayaraj		
16:00-16:15	Current Biodiesel Production Technologies: A Comparative Review	Ahmad Abbaszadeh Mayvan, Barat Ghobadian, Gholamhassan Najafi (Tarbiat Modares Uni., Tehran - Iran)
16:15-16:30	Analytical And Fem Design of Mixing System in STR Biodiesel Production	Ahmad Abbaszadeh Mayvan, Barat Ghobadian, Gholamhassan Najafi, Mohammad Reza Omidkhan (Tarbiat Modares Uni. - Tehran, Iran)
16:30-16:45	Bioenergy Production And Use: Comparative Analysis Of The Economic And Environmental Effects	Christiane Hennig, Marek Gawor (German Biomass Research Centre, Germany)
16:45-17:00	Effect of Injection Pressure on Brake Thermal Efficiency and BSFC in a DI Diesel Engine using Biodiesel	Sajad Rostami, Lotfollah Savadkouhi, Barat Ghobadian, Mostafa Kiani (Tarbiat Modares Uni., Tehran - Iran)
17:00-17:15	Variation of Engine Performance And Emissions Using Waste Vegetable Oil And Its Blends With Diesel Fuel	Hamad Algasim, John Fieldhouse (Uni. of Huddersfield - UK)
17:15-17:30	Potential of Biodiesel Production from WVO and SVO in Iran	Barat Ghobadian (Tarbiat Modares Uni. - Iran)
17:30-17:45	Biogas Production at Norrmejerier Dairy Factory, Umea, Sweden	Anita Sellstedt, Mike Li, Atongka Placid, Tony Backstrom (Umea Uni. Sweden)
Parallel Session 2 (CEYHAN Hall) “Solar Energy Applications” Chairman: Essam Al-Ammar		
16:00-16:15	Ground-Source Heat Pump Performance Enhanced With Earth Charging By Means of Solar-Cooker-Style Thermal Collectors, Leading to Zero Carbon Emission	David Nicholson-Cole, Saffa Riffat (Uni. of Nottingham – UK)
16:15-16:30	A Critical Review of Solar Humidification Dehumidification (HD) Desalination Process	Abdulkarim Mayere, Saffa Riffat, Leon Begrambekov (Uni. of Nottingham – UK)
16:30-16:45	A solar-driven ejector refrigeration system for Mediterranean climate: Experience and performance	Siddig Omer, Yosr Allouche, Saffa Riffat, Chiheb Bouden (Uni. of Nottingham – UK)
16:45-17:00	Thermal Performance Evaluation of Actual Multistory Type Double Skin Facade with Respect to Solar Radiation	Uk-Joo Sung, Soo Cho, Dong-Hyun Seo, Sang-Hoon Lim

		(Korea Institute of Energy Research, Korea)
17:00-17:15	Concentration solar cooker made from scraps of satellite dishes	Luiz Guilherme Meira Souza, Ricardo Eugênio Barbosa Ramos Filho, Jose Ubiragi de Lima, Mendes, Miguel Cabral de Macedo Neto, Luiz Guilherme Vieira Meira de Souza (Universidade Federal do Rio Grande do Norte, Brazil)
17:15-17:30	Solar Energy Applications in Refineries: Emerging developments and potential applications: A single refinery research	Meriç Kartal, (TÜPRAŞ, Turkey)
Parallel Session 2 (DİCLE Hall) “Wind Energy Applications” Chairman: Dr. Sulaiman Ibrahim		
16:00-16:15	Proposal of An Electromechanical System Wind Turbine-Static Converter-Synchronous Moteur	Yamina Menasria (Badji Mokhtar Uni. – Algeria)
16:15-16:30	A Mean Flow Acoustic Engine Capable of Wind Energy Harvesting	Daming SUN, Ya XU, Haijun CHEN, Yan YU, Limin QIU (Zhejiang Uni. – China)
16:30-16:45	Optimal Operation of a Wind Powered Pumped Storage Hydroelectricity Plant	Erman Terciyanlı, Neslihan Köse, Ceyhun Yıldız, Mustafa Demir, Hasan Ozan Taş, Hakan Ünsal, Maksut Saraç (TÜBİTAK Space Research Inst., Turkey)
16:45-17:00	Use of Support Vector Regression for Wind Power Forecasting	SeongJun Kim , Inyong Seo (Gangneung-Wonju National Uni. – Korea)
17:00-17:15	Reliability Assessment of Wind Energy System Considering Turbine Dimensions	Bedri Kekezoglu, Ali Erduman, Ali Durusu, İsmail Nakir, Muğdeşem Tanrıöven, (Yıldız Technical Uni. – Turkey)
17:15-17:30	Use Of Wavelet Decomposition For Wind Power Forecasting	Seong-Jun Kim, In-Yong Seo (Gangneung-Wonju National Uni., Korea)
17:30-17:45	Study of wind speed trends for energy in Iran	Yagob Dinpashoh (Uni. of Tabriz – Iran)
Parallel Session 2 (HEYBELİ Hall) “Artificial networks” Chairman: Essam Al-Ammar, Saudi Arabia		
16:00-16:15	Drying Kinetics of Asian Pears (Pyrus Serotina Rehd) Using Thin-Layer Drying Models and Artificial Neural Networks	Pegah Nematizade, Mohamad Abasian, Mohamad Hadi Khoshtaghaza, Barat Ghobadian, Gholamhassan Najafi (Tarbiat Modares Uni., Tehran- Iran)
16:15-16:30	Assessing the size of distributed generation in reliable micro-grid using particle swarm based optimization Based on Reliability Concept	Fatemeh Tooryan, S. Masood Moghaddas Tafreshi, S. Mohammad taghi Bathaee (Khajeh Nasir Toosi Uni., Iran)
16:30-16:45	Fuzzy Dispatching of Solar Energy in Distribution System	Majid Nayeripour, Mostafa Kheshti (Shiraz Uni. Of Technology – Iran)
16:45-17:00	Design and Implementation of A Fuzzy Logic Based A Photovoltaic Peak Power Tracking Controller	Khalid Khaleel (Uni. of Mosul, Iraq)
19:00 CONFERENCE DINNER		
6 September 2011 Tuesday		
Parallel Session 3 (MARMARA Hall) “Nuclear energy” Chairman: Kune Y. Suh		
09:00-09:15	Commercial Utilization of Weapon Grade Plutonium as TRISO Fuel in Conventional CANDU Reactors	Sümer Şahin, Hacı Mehmet Şahin, Adem Acır (Atılım Uni. , Gazi Uni. Turkey)
09:15-09:30	A Study On A Symbiotic Thorium Breeding Fuel-Cycle:	L. Berrin Erbay, Kazuo Furukawa

	Thorims-Nes Through Fuji	Atilla Aykol (Eskişehir Osmangazi Uni. – Turkey)
09:30-09:45	Effect of Void-Fraction on Characteristics of Several Thorium Fuel Cycles in BWR	A. Waris, M. A. Shafii, S. Pramuditya, R. Kurniadi, Novitrian, Z. Su’ud (Institut Teknologi Bandung, Indonesia)
09:45-10:00	A Unique Thorium Mineralization in SW-Anatolia and Thorium Energy Utilization	Atilla Aykol, Kazuo Furukawa, L. Berrin Erbay (AMR Madencilik, Turkey)
10:00-10:15	Development of a Nuclear Research Reactor Simulator for Educational Purposes	Ahmad Abrishami, Ali Pazirandeh (Islamic Azad Uni. – Iran)
10:15-10:30	The Evaluation of Reactor Performance by Using Flibe and Flinabe Molten Salt in te Apex Hybrid Reactor	Aybaba Hançerlioğulları (Kastamonu Uni. – Turkey)
Parallel Session 3 (FIRAT Hall) “Energy-exergy Analysis” Chairman: Prof. Zehra Canan		
09:00-09:15	Exergy Analysis of A Direct Methanol Fuel Cell System	Suha Mert (Ege Uni. – Turkey)
09:15-09:30	Thermal Performance And Comfort Analysis of Novel Low Exergy Radiant Heating Cooling Panels	Aliihsan Koca, Zafer Gemici Mustafa Doğu (Mir Technology, Turkey)
09:30-09:45	Analysis Of The Exergy Rationality Of Combining Heat Pumps And Chp Systems	Birol KILKIŞ (Başkent Uni. - Turkey)
09:45-10:00	A Net-Zero Building Application And Its Role In Exergy-Aware Local Energy Strategies For Sustainability	Şiir Kılıkış (Royal Institute of Technology, Sweden)
10:00-10:15	Exergy Metrication Of Radiant Panel Heating With Heat Pumps	Birol Kılıkış (Başkent Uni. -Turkey)
10:15-10:30	Evaluation of Energy Efficiency in Ereğli Sugar Plant By Method of Energy And Exergy Analysis	Necmettin Şahin, Kadir Yıldız, Erkan Kaplan (Aksaray Uni. – Turkey)
10:30:10:45	Energy And Exergy Analysis of A Heavy Duty CI Engine	Hasan Koten , Yalçın Yükselentürk, Mustafa Yılmaz (Marmara Uni. – Turkey)
Parallel Session 3 (SEYHAN Hall) “Energy Policy ” Chairman: Prof. Dora Francese		
09:00-09:15	The effect of external energy driven transport systems on cities Entropy in urban and transport planning	Hermann Knoflachner, Ebru Öcalır (Vienna Uni. of Technology – Austria)
09:15-09:30	Energy Public Awareness through an interactive user-friendly web based tool: case of UAE Cities	Abeer Shaheen (British Uni. in Dubai)
09:30-09:45	Design and Fabrication of Speed Braker Power Generation System	Balaji Ayyanar, Cayyanar (Government College of Engineering , Chennai)
09:45-10:00	Renewable Energy Investments In Turkey – A Case For Sme Investment Analysis On Solar Energy	Arzum Özgen, Pınar Bilge, Günther Seliger (Okan Uni., Turkey)
10:00-10:15	Prospects for magnetohydrodynamic energy generation in Nigeria	Stephen Nwanya (Uni. of Nigeria – Nsukka)
10:15-10:30	An Energy Source Policy Assessment Using Analytical Hierarchy Process: Example of District of AYDIN	Özgür EROL, Birol KILKIŞ (Başkent Uni. – Turkey)
10:30:10:45	Incorporating Seasonal Variation of Occupancy in an Electricity Demand Model for Dynamic Demand Management Simulations	Amir Fazeli, Mark Gillott, Mark Johnson, Mark Sumner, David Parra (Nottingham Uni, UK)
Parallel Session 3 (CEYHAN Hall) “Energy-saving Buildings” Chairman: Dr. Ahmed Freewan		
09:00-09:15	Sustainable Generation And Transmission Expanssion Planning In Competitive Power Markets	Mohammad Sadegh Javadi, Mohsen Saniei (Shahid Chamran Uni. - Iran)
09:15-09:30	Review of Renewable Transport Technologies for Sustainable Environments in European Countries	Mustafa Ersalıcı, Hasim Altan (Uni. Sheffield – UK)

09:30-09:45	Why are Carbon Capture and Demonstration Projects Failing?	Laura Kainiemi, Sanni Eloneva Carl- Johan Fogelholm (Aalto Uni. – Finland)
09:45-10:00	A Comparison of Metrobus System and Trolleybus System Considering Energy Costs and CO2 Emission: A Case Study for Istanbul	Ramazan AYZ, İsmail Nakir, Ali Durusu, Hakan Akça, Muğdeşem Tanrıöven (Yıldız Technical Uni. – Turkey)
10:00-10:15	A Hybrid Intelligent Algorithm for Improved Prediction of Annual CO ₂ Emission	Ali Azadeh, M. Sheikhalishahi, M. Hasumi, B. Malekshoja (Uni. of Tehran – Iran)
10:15-10:30	Investigation of determinants of agricultural production cooperatives efficiency in Iran	Sevil Hatamifard, Saeed Yazdani, Hamideh Hamidehpour (Islamic Azad Uni., Iran)
10:30:10:45	Aerogel Applications in The Built Environment: Review	Guoquan Qiu, Saffa Riffat (Uni. Nottingham – UK)
Parallel Session 3 (DİCLE Hall) “Material research in Energy Applications” Chairman: Dr. Hasan Ufuk Gökçe		
09:00-09:15	Techno-Economic Evaluation of High Temperature Superconductivity Utilization for Sustainability: A Case Study for Turkey’s Power System	Ali Erduman, Bedri Kekezoglu Muğdeşem Tanrıöven (Yıldız Technical Uni. – Turkey)
09:15-09:30	Improvement Of Thermal Properties Of Polyurethane Rigid Foam With Phase Change Materials	Ahmet Alper Aydın, Hasancan OKUTAN (Istanbul Technical Uni. –Turkey)
09:30-09:45	Synthesis and characterizatoin of Al doped-ZnO thin film coatings by dip coating: effect of ZnO sol concentration	Deniz Gültekin, Mehmet Oğuz Güler, Özgür Cevher, Hatem Akbulut (Turkey)
09:45-10:00	Feasibility of phase change material for heat reduction window	Waraporn Rattanongphisat (Naresuan Uni. - Thailand)
10:00-10:15	High performance new generation solar cells with metal nanostructures	Ricky Dunbar (Ludwig-Maximilians Uni. – Germany)
Parallel Session 3 (HEYBELİ Hall) “Advanced Solar Applications” Chairman: Dr. Ed Cooper		
09:00-09:15	Solar-driven ejector refrigeration technologies: State of the Art Review	Bakr Alshehri, Saffa Riffat (Uni. of Nottingham – UK)
09:15-09:30	Experimental research of the multi-surface composite focus trough solar air collector	Tao Tao, Hongfei Zheng (Beijing Institute of Technolog – China)
09:30-09:45	Seawater Desalination Using Solar Thermal Technologies: State Of The Art	Shiva Gorjian, Teymour Tavakkoli, Barat Ghobadian (Tarbiat Modares Uni., Iran)
09:45-10:00	The Design Of Improved Sun Tracking Devices As Solar Panel Enhancers Based On Parallel Robotics	Luc Rolland (Toros Uni. – Turkey)
10:00-10:15	The Relation of Collector And Storage Tank Size in Solar Heating Systems	Uğur Çakır, Kemal Çomaklı, Kadir Bakırcı (Bayburt Uni.,– Turkey)
10:15-10:30	Experiment and simulation study of solar collector selection for solar ejector air conditioning system	Wei Zhang, Xiaoli Ma, S.A.Omer, S.B.Riffat (Uni. Nottingham – UK)
10:30:10:45	Modeling, Simulation, Performance And Maintenance of Parabolic Trough Solar Field in Desert Regions	Omar Behar, Hadiouche Ahmed, Kellaf Abdallah, Mohamedi Kamal (Uni. of Boumerdes, Algeria)
10:45-11:00 Coffee Break		
Parallel Session 4 (MARMARA Hall) “Heat Transfer Applications” Chairman: Dr. Abdullrahman Maghrabi		
11:00-11:15	Heat Transfer To Supercritical Pressure Carbon Dioxide Flowing Upward Small Circular Tube	Jae S. Yoo, Kune Y. Suh (Seoul National Uni. – Korea)
11:15-11:30	An Experimental Study on Thermal Performance of a Heat Exchange Type Air Flow Window	Keigo Yoshida, Hiroshi Matsumoto, Masashi Hanma, Satoru Ikeo (Toyohashi Uni. Technology - Japan)
11:30-11:45	Preliminary Performance Evaluation of Heat Transfer	Hyung M. Son, Kune Y. Suh

	Correlations For Supercritical Carbon Dioxide Vertical Upflow	(Seoul National Uni. – Korea)
11:45-12:00	Impact of Gas-liquid Interface on the Mobility and Pressure Drop of a Two-Phase Flow in Porous Media	Xu Xu, Stephen O. Kwelle, Michael Zaiser, Xianfeng Fan (The Uni. Edinburgh – UK)
12:00-12:15	The efficiency enhancement of vortex cooling by means of heat exchanger	Waraporn Rattanongphisat, Theeraphong Yimpradid (Naresuan Uni. - Thailand)
12:15-12:30	Design And Operational Optimisation of A Hot-water Piping Network Within A Microgrid	Evgenia D. Mehleri, Haralambos Sarimveis, Nikolaos C. Markatos, Lazaros G. Papageorgiou, (Uni. College London-UK)
Parallel Session 4 (FIRAT Hall) “Hydrogen Energy Applications” Chairman: Prof. Dr. Atilla Aykol		
11:00-11:15	Exergoeconomic Analysis Of A Combined Ammonia Based Solid Oxide Fuel Cell System	Ehsan Baniasadi, Greg Naterer, İbrahim Dinçer (Uni. of Ontario Inst. Tech. – Canada)
11:15-11:30	Numerical Study Of The Effect Of The Inlet Pressure In A Gas Channel On The Consumption Of Reagents In A PEMFC Fuel Cell	Zeroual Mostefa, Belkacem Bouzida Sihem, Ben Moussa Hocine (Uni. of Batna - Algeria)
11:30-11:45	Technical And Economical Consideration About Residential Application of A Stand-Alone Fuel Cell System	Ahmet Arabul, Mustafa Sarul, Ali Boynueğri, Celal Kumru, (Yıldız Technical Uni. – Turkey)
11:45-12:00	SOFC Fed By Hydrogen: Heat Sources And Gas Temperatures Effect On Temperature Field	Zitouni Bariza, Abdenebi Hafsia, Zeroual Mustapha, Ben Moussa Hocine Haddad Djamel (Uni. Batna - Algeria)
12:00-12:15	Performance Analysis of Fuel Cells using Non dimensional Approach	Ibrahim Rajab (Jubail Industrial College ; KSA)
12:15-12:30	Modelling of Methane Reforming in a Membrane Reactor	Özgün Yücel, Eyüp Şimşek, M. Alaittin Hastaoğlu (GYTE – Turkey)
12:30-12:45	Hydrogen storage: Size effects in complex hydrides	Meganne Christian, Kondo-Francois Aguey-Zinsou (Uni. of New South Wales - Australia)
Parallel Session 4 (SEYHAN Hall) “Researches on Traditional Resources” Chairman: Mr. Anthony D Browne		
11:00-11:15	Determination of sorbent materials for the control of arsenic and selenium emissions from coal discards gasification	Duncan Mwakipesile (Mbeya Institute of Science and Technology – Tanzania)
11:15-11:30	Feasibility Experiments on VOC Removal Performance of an Air Cleaner Based on Adsorption/Desorption Effect using Zeolite	Masashi Hanma, Hiroshi Matsumoto (Toyohashi Uni. Technology, Japan)
11:30-11:45	A study of the drying characteristics of Indonesian IBC coal through lab-scale single fluidized-bed reactor	Do Man Jeon, Tae Jin Kang, Ga Hee Lee, Young Shin Jeon, Hyung Taek Kim, Si Hyun Lee, Sang Do Kim (Ajou Uni. - Korea)
11:45-12:00	Aspen HYSYS Simulation of CO ₂ Removal by Amine Absorption from the Flue Gas of a Coal-Fired Power Plant	Anthony Browne, Paul Langston, Hao Liu (Uni. Nottingham – UK)
12:00-12:15	Study of Trace elements behaviour on coal discards Gasification for Sustainable Energy in Tanzania	Duncan Mwakipesile (Mbeya Institute of Science and Technology – Tanzania)
12:15-12:30	Gasification of the chars from low quality Adana-Tufanbeyli lignite	Fatih Çakıroğlu, Hanzade Haykırı-Açma, Serdar Yaman (Istanbul Technical Uni. - Turkey)
Parallel Session 4 (CEYHAN Hall) “Hydro and Geothermal Energy Researches” Chairman: Dr. Joel Chaney		
11:00-11:15	The geothermal resources in the region of Guelma (Algeria)	Mebrouk Benziada (CDER, Algeria)
11:15-11:30	Thermodynamic Analysis Of Geothermal Energy Based	Can Coskun, Zuhul Oktay, İbrahim

	Multi-Generation Systems: Case Study	Dinçer (Balıkesir Uni. – Turkey)
11:30-11:45	The examination of geothermal energy in Northwestern Iran (Meshginshahr Region)	Shahriyar Karimdoust (Payame Noor Uni., Iran)
11:45-12:00	A Nozzle Pulse Pressurisation Technique For Measurement of Building Leakage At Low Pressure	Edward Cooper, Yingqing Zu (Uni. of Nottingham – UK)
12:00-12:15	Design of Kaplan turbine for micro-hydro Application	Javed A. Chattha, Mohammad S. Khan, Shariq Bin Sohail, Sarmad Khan (Ghulam Ishaq Khan Inst. Engineering Sci. Tech., Pakistan)
Parallel Session 4 (DİCLE Hall) “Thermodynamic Applications” Chairman: Mr. Hong Bing Chen		
11:00-11:15	Effect of Electrode Geometric Properties on EHD Enhanced Heat Transfer in A Tube	Mojtaba Mirhosseini, Ali Akbar Alemrajabi (Isfahan Uni. of Technology – Iran)
11:15-11:30	Experimental Studies For The Removal of Excessive Heat Originated From SCR Application in A Bus Powered By EPA10 Engine	Mustafa Taş (Temsa Global A.Ş. – Turkey)
11:30-11:45	Modeling, Performance Evaluation And Optimization of An Organic Rankine Cycle (ORC) Unit With R245FA As Working Fluid	Musbaudeen Bamgbopa, Eray Uzgören (Middle East Technical Uni. –Turkey)
Parallel Session 4 (HEYBELİ Hall) “Energy policies” Chairman: Prof. Ien Whei Chen		
11:00-11:15	G-Series: as an environmental friendly hybrid fossil-bio transportation fuel	Pegah Nematizade, Barat Ghobadian, Gholamhassan Najafi (Tarbiat Modares Uni. - Iran)
11:15-11:30	The Potential of Being With Energy Governance and Policies of Turkey and Comprasion With Spesific Country Cases	Nurcan Kilinc, Hakan Kilinc (Uni. of Exeter – UK , GYTE – Turkey)
11:30-11:45	Renewable Energy: In The Context Of Turkey’s And The EU’s Energy Policies	Selma Şekercioğlu, Mustafa Yılmaz (Marmara Uni. Turkey)
11:45-12:00	Assessment of Renewable Energy Policy in Pakistan	Waqas Bin Najib, Tariq Saeed Khan (Punjab Board of Inv.& Trade, Pakistan)
12:00-12:15	Future Energy Carrier- DME	Hülya Erdener, Murat Yıldırım (TÜPRAŞ – Turkey)
12:15-12:30	Utilization of hybrid renewable energy in Saudi Arabia	Essam Al-Ammar, Nazar Malik Mohammad Usman (King Saud Uni. - Saudi Arabia)
12:30-13:30 CONFERENCE PHOTO-2 and LUNCH		
Parallel Session 5 (MARMARA Hall) “Hydrogen Production” Chairman: Prof. Dr. Birol Kılıç		
14:00-14:15	Hydrogen Production From Sugar Industry Wastes In Single-Stage Photo Fermentation Systems	Tuğba Keskin, Patrick C. Hallenbeck (Université de Montréal, Canada)
14:15-14:30	Studying The Effect of Different Variables On The Production of Hydrogen From Sea Water Using PV Cells Coupled To an Electrolyzer	Farqad Saeed, Ahmed Al-Ghandour, Yaseen Al Husban (Royal Scientific Society, KSA)
14:30-14:45	Technico-economic analysis of renewable hydrogen production in Algeria	Rafika Boudries, R. Dizene (CDER, Algeria)
14:45-15:00	On the use of electrodeposited Ni-W alloy coatings as cathodes for hydrogen evolution in potassium hydroxide solution – a reduction of energy consumption	Gvozden S. Tasic, Milica P. Marceta, Vladimir M. Nikolic, Djordje P. Saponjic, Vladimir D. Jovic (Uni. of Belgrade, Serbia)
15:00-15:15	Feasibility Analysis of Carbon Trading for Hydrogen Production from Natural Gas	Fehmi Görkem Üçtuğ, Mehmet Melikoğlu, Cemil Abdullah Naseh (Bahçeşehir Uni. - Turkey)
15:15-15:30	Characterization of hydrogen production by ammonium insensitive revertant of CBB deficienet rhodobacter capsulatus	Yavuz Öztürk, Abdulmecit Gökçe, Meral Yücel, İnci Eroğlu

	strain	(TÜBİTAK, Turkey)
15:30-15:45	Efficiency Comparison of Various Design Schemes for Copper-Chlorine (Cu-Cl) Hydrogen Production Processes using Aspen Plus Software	Mehmet F. Orhan, Ibrahim Dinçer, Marc A. Rosen (Uni. of Ontario Institute of Technology - Canada)
Parallel Session 5 (FIRAT Hall) “Sustainable Buildings” Chairman: Dr. Mark Gillot		
14:00-14:15	A study on the effective use of the Environmental Assessment Tools and its sustainable impact: case study for low cost high rise housing in Malaysia	Asrulmahjuddin Aminuddin (Universiti Malaya - Malaysia)
14:15-14:30	Towards a multidimensional segmentation of the real estate market of apartments in Santiago de Chile: A probabilistic approach from the energy building simulation	Felipe Encinas Pino, Francisco José Sanchez De La Flor, Carlos Aguirre Nunez, Alejandro Rincon Casado (Université catholique de Louvain, Belgium)
14:30-14:45	Energy management in Iran’s vernacular architecture	Melika Amirzadeh (Uni. of Tehran, Iran)
14:45-15:00	Micro-eolic energy within residential buildings: a didactic experiment at the school of Architecture in Naples	Dora Francese, Luca Buoninconti, Pietro Nunziante, Renato Rinauro, (Università Federico II, Italy)
15:00-15:15	Thermal Barrier: Indirect heating and cooling technique of residential buildings	Marek Krzaczek, Maria-Ilona Kiefel, Gang Liu, Klaus Rückert (Gdansk Uni. of Technology - Poland)
15:15-15:30	Improving daylight performance of light well in multi-story apartment buildings	Ahmed Freewan (Jordan Uni. of Science and Technology Jordan)
15:30-15:45	Preferred Luminous Conditions In Daylit Environment And Occupant Satisfaction For Office Buildings In Hot- Humid Climate Of Malaysia: A Survey	Mohd Husini Elina, Mohd. Zin Kandar (Universiti Teknologi Malaysia - Malaysia)
Parallel Session 5 (SEYHAN Hall) “Engines” Chairman: Mr. Abdulkarim Mayere		
14:00-14:15	Multi-Dimensional Simulation of n-heptane Combustion under HCCI Engine Condition Using Detailed Chemical Kinetic	Younes Bakhshan (Hormozgan Uni. - Iran)
14:15-14:30	Drivers for a sustainable future: A review of motor fuels & automotive technologies	Irmak Koçkan Ersolmaz, A. Murat Yıldırım (TÜPRAŞ – Turkey)
14:30-14:45	Exergetic Analyses of Solar Stirling Engines	Rabi Karaali (Kocaeli Uni. - Turkey)
14:45-15:00	Prediction & analysis of knock in an ICE Fueled with CNG	Younes Bakhshan (Hormozgan Uni. - Iran)
15:00-15:15	A zero-dimensional turbulence model for calculation of heat transfer in a CNG engine	Younes Bakhshan (Hormozgan Uni. - Iran)
15:15-15:30	Misfire Reduction Using Hydrogen In An SI Engine	M. Akif Ceviz, Şükran Efe Asok K. Sen , (Atatürk Uni., Bayburt Uni. - Turkey)
15:30-15:45	Numerical and experimental study to design 1kW Stirling engine heat exchanger	Seok Hun Kang , Hyuck Joo Kim (Korea Institute of Energy Research, Korea)
Parallel Session 5 (CEYHAN Hall) “Sustainable Environment” Chairman: Mr. David Parra		
14:00-14:15	The use of slag stone concrete to improve the thermal performance of light steel buildings	Djamel Beggas (El Baha Uni., Saudi Arabia)
14:15-14:30	Sustainability Evaluation Method for PV Buildings	Dora Francese, Cristian Filagrossi Ambrosino (Università di Napoli – Italy)
14:30-14:45	Viability of Renewable Technologies in Refurbished Non Domestic Buildings	Michelle Agha-Hosseini (Uni. of Reading -UK)
14:45-15:00	Building Integrated Solar Tri-generation System for the Engineering Faculty Building of Başkent Uni.	Birol KILKIŞ (Başkent Uni. - Turkey)
15:00-15:15	Harnessing Daylighting Potentials as a Tool for Thermal Comfort for Residential Buildings	Rukayyatu Tukur (Uni. of Nottingham – UK)

15:15-15:30	New Concepts And Approach For Developing Energy Efficient Buildings: Optimized Combined-Ventilation	Rui Cheng, Yinping Zhang Wang Xin (Tsinghua Uni. - China)
15:30-15:45	Intelligent Building Systems: Sustainability through Information transfer	Hussnan Shah (Technologies for Sustainable Built Environments – UK)
Parallel Session 5 (DICLE Hall) “Heat Transfer Application” Chairman: Dr. Kune Y. Suh		
14:00-14:15	The Analytical Optimization Of Specific Heat For Building Internal Envelope	Jiang Feng, Wang Xin, Yinping Zhang (Tsinghua Uni. – China)
14:15-14:30	Numerical Calculation Using Computer Software (Fluent) And Experimental Validation of The Temperature inside A Greenhouse	Zitouni Bariza (Uni. of Batna - Algeria)
14:30-14:45	Theoretical model of a flat Loop Heat Pipe (LHP) in moderate to high load conditions	Mohammad Hossein Ghaffari, Hooman Farzaneh, M. Behshad Shafii (Azad Uni., Iran)
14:45-15:00	Performance And Potential Applications of Direct Expansion Ground Source Heat Pump Systems For Building Energy	Abdeen Omer, Siddig Omer, Saffa Riffat (Uni. of Nottingham – UK)
15:00-15:15	Effect of low pressure generator temperature on the performance of double effect vapour absorption heat transformer	Rabah GOMRI (Uni. Constantine, Algeria)
15:15-15:30	Effects of concavity level on heat loss, effectiveness and efficiency of a longitudinal fin exposed to natural convection and radiation	Pınar Mert Cuce, Erdem Cuce (Karadeniz Technical Uni. – Turkey)
15:30-15:45	Numerical Comparison Between Two Advanced HGHEs	Michele Bottarelli, Vittorio Di Federico (Università di Ferrara, Italy)
Parallel Session 5 (HEYBELİ Hall) “Wind Energy Applications” Chairman: Dr. Guoquan Qiu		
14:00-14:15	Aerodynamic Design of a 300 kW Horizontal Axis Wind Turbine	Mojtaba Mirhosseini, Mohsen Alaian, Ahmad Sedaghat, Ali Akbar Alemrajabi (Isfahan Uni. of Technology – Iran)
14:15-14:30	Performance Analysis of the Double Blade Airfoils	Tahir Yavuz, Emre Koç, H. Tagmac Derya (Başkent Uni. – Turkey)
14:30-14:45	A Wind Tunnel Investigation of Monodraught Windcatcher Designs	Edward Cooper, Naghman Khan, Mahdieh Mahin Babaei (Uni. of Nottingham, UK)
14:45-15:00	Distributed algorithm for power optimization of offshore wind parks	Julio A. Oliveira Filho, Zoltan Papp (TNO, The Netherlands)
15:00-15:15	Application of Simulation Model for Sizing the Hybrid Solar and Wind Energy Production System Prototype in a Commercial Building in Izmir	A.Sedat Sarman, Başak Kardaşlar, Dana Kardaşlar, Yunus Hacihalil, (Yasar Uni., Turkey)
15:15-15:30	Aerodynamic Performance Sensitivity Analysis of Blade Design for a 100 kW HAWT	Hassan Dogan, Mahmut Faruk Aksit (Sabancı Unv, Turkey)
15:45-16:00 Coffee Break		
Parallel Session 6 (MARMARA Hall) “Solar Energy” Chairman: Dr. Lucelia Taranto Rodrigues		
16:00-16:15	Comparative Performance Evaluation of Rectangular And Square Type Solar Cookers	Ibrahim Danmallam (Sokoto Energy Research Centre, Nigeria)
16:15-16:30	Parametric Thermodynamic Analysis For Single And Double Effect Absorption Systems	M.M. Abo Elazm, A.I.Shahata, A.F. Elsafty, M.M.Aboelnasr (Ain-Shams Uni. – Cairo)
16:30-16:45	Feasibility of Solar Based Technology Use in Nigeria	Musbaudeen Bamgbopa, Ali Muhtaroglu (Middle East Technical Uni. – Turkey)
16:45-17:00	Comparison on black solar absorber thin films	Sm Rozati, S.Jafari, G.Toghdori, Z.Ghasempour (Uni. of Guilan - Iran)
17:00-17:15	The Process of Designing Surrounding Helioestat Fields for a	Pouyan Talebizadeh, Mozzafar Ali

	Central Receiver Solar Power Pla	Mehrabi Mehrabian, Morteza Abdolzadeh (Shahid Bahonar Uni. of Kerman ,Iran)
17:15-17:30	Developing New Models to Predict Optimum Slope Angle of Solar Collectors for Any Latitude in Iran	Pouyan Talebizadeh, Mozzafar Ali Mehrabi, Mehrabian, Morteza Abdolzadeh, Seyed Ali Keshavarz (Shahid Bahonar Uni., Islamic Azad Uni. - Iran)
Parallel Session 6 (FIRAT Hall) “Material Research for Energy System” Chairman: Dr. David Tetlow		
16:00-16:15	Morphology and composition of Ni-W alloys electrodeposited on a nickel mesh as possible cathodes for alkaline water electrolyzers	Marijana Tasic (Uni. of Belgrade, Serbia)
16:15-16:30	Thin Film SnO ₂ Coatings for Lithium Ion Batteries	Mehmet Oğuz Güler, Hatem Akbulut (Sakarya Uni. –Turkey)
16:30-16:45	Ni Hydrotalcites materials for catalytic reaction	F.Touahra, K. Bachari, A. Saadi, O. Cherifi, D. Halliche (USTHB, Algeria)
16:45-17:00	Structural And Thermal Investigation Of The Pyrolytic Chars From Stalks And Stover Of Sunflower	Emine Topsak, Hanzade Haykırı-Açma, Serdar Yaman (Istanbul Technical Uni. - Turkey)
17:00-17:15	Effect of annealing temperature on the properties of tin-doped indium oxide (ITO) thin films prepared by RF magnetron sputtering	Ozgur Cevher, Mehmet Oguz Guler, Deniz Gültekin, Hatem Akbulut (Sakarya Uni. – Turkey)
17:15-17:30	Analysis on the Performanc of Adsorption Desalination System with 3 types of Silica Gel	Joon Ho Hyun, Seung Jin Oh, Young Min Kim, Kuan Chen, Yoon Joon Lee, Ng Kim Choon, Wongee Chun (Jeju National Uni. - South Korea)
Parallel Session 6 (SEYHAN Hall) “Fuel Cells ” Chairman: Mr. Weili Xu		
16:00-16:15	A Comparative Study of Operating Strategies For A Stand-Alone Fuel Cell Powered Residential House	Uğur Selamoğullari (Yıldız Technical Uni. – Turkey)
16:15-16:30	15% efficiency enhancement using a novel partially interdigitated serpentine flow field for PEM fuel cells	Hamidreza Choghadi, Mohammad J. Kermani (Amirkabir Uni. of Technology – Iran)
16:30-16:45	Three-dimensional PEM fuel cell model to investigate the transport limitations at different humidity condition	Sheikh Islam, Mamdud Hossain, Pat Pollard, (Robert Gordon Uni. - UK)
16:45-17:00	Obstacled Gas Flow Channels For Proton Exchange Membrane Fuel Cells	Talha Camci, İbrahim Turkmen, Derek Baker, Nurdan D. Sankir, Mehmet Sankir (TOBB ETU, Turkey)
17:00-17:15	Numerical investigation of effects of micro-porous layer in PEM fuel cells	Sheikh Islam, Mamdud Hossain, Pat Pollard(Robert Gordon Uni. - UK)
17:15-17:30	Effect of Porosity on the Water Transport in a Proton Exchange Membrane for Fuel Cell (PEMFC)	Kafia Oulmi, D.Haddad, H. Benmoussa (Uni. of Batna, Algeria)
17:30-17:45	Enhancing a hydrogen pem fuel cell stack with Gold-dodecanethiolate core-shell nanoparticles	Sean Ballinger (Phillips Academy, MA)
Parallel Session 6 (CEYHAN Hall) “Energy efficient buildings” Chairman: Prof Xin Wang		
16:00-16:15	Holistic System Architecture for Energy Efficient Public Spaces	Kamil Umut Gökçe, Hasan Ufuk Gökçe, Peter Katranuschkov (İstanbul Bilgi Uni. – Turkey)
16:15-16:30	Glazing Materials Techniques in The Distribution of Natural Lighting in Green Buildings	David C. Avila (Uni. of Guadalajara - Mexico)
16:30-16:45	Sensitivity Analysis of the main variables affecting the	Alejandro Rincón Casado, Francisco

	Hybrid Ventilation of Residential Buildings	Sanchez de la Flor, Felipe Encinas Pino, Carlos Aguirre Nuñez (Universidad de Cadiz - Spain)
16:45-17:00	Simulation Tools for Zero Carbon Building Design	Lucelia Rodrigues (Uni. of Nottingham –UK)
17:00-17:15	A quantitative approach for “green city building”	Kwon Soook Park, Yong Sang Yoon (Karachi International Container Terminal – Pakistan)
17:15-17:30	Façade performance and Occupant Comfort Studies in a Conditioned Open Plan office Building	Kiran Kumar DEVS, Ramachandraiah A (IIT Madras – India)
17:30-17:45	Existing buildings project. Technical and operational model for the eco-compatible rehabilitation of public residential buildings	Roberta Rotondo (Sapienza Uni. of Rome, Italy)
Parallel Session 6 (DICLE Hall) “Alternative Energy Researches” Chairman: Dr. Wd Ying		
16:00-16:15	A Displacement Dependent Damper For A Vibration Based Energy Harvester	Nezih Topaloğlu, Asil Aksekili, Burak Yegin (Yeditepe Uni., Turkey)
16:15-16:30	Effect of cadmium ion concentration on the physical properties of nanoscale CdO thin films prepared by spray pyrolysis	Zahra.A.Hallaj, S. Mohammad Rozati (Uni. of Guilan - Iran)
16:30-16:45	Organic Photovoltaic Devices Incorporating Nanostructures in The Photoactive Layer: Towards Clean Solar Energy Generation	Khaulah Sulaiman, Muhamad Saipul Fakir, Mohd Nizam Yusli Fadilah Abd. Wahab (Uni. of Malaya , Malaysia)
16:45-17:00	Steam Production From Spent Mushroom Bed Gasification	Tetsu Yamagishi, Sumiko Igawa (Tokyo Gas Co.- Japan)
17:00-17:15	Study of using microalgae as an alternative of fossil fuel in Iran	Farzaneh Jafarigol, Soroush Younessi Sinaki, Ali Beheshti (Islamic Azad Uni. – Iran)
Parallel Session 6 (HEYBELİ Hall) “Hydroenergy Researches” Chairman: Dr. Wei Zhang		
15:15-15:30	Harnessing waves energy in south coasts of Iran	Behzad Soltanbeigy, Ramin Vafaei Poursorkhabi (Islamic Azad Uni., Iran)
15:30-15:45	Global irradiation and air temperature data analysis using Fourier series for the site of CDER, Algiers .	Abdeladim Kamel, Kerkouche Karim, Cherfa Farida, Chouder Aïssa, Hadj-Arab Amar (CDER - Algeria)
15:45-16:00	Optimizing High-Pressure Pipes for Water Transfer of Plant Through Genetic Algorithm Method	Nazila Kardan, Mostafa Basiri (Islamic Azad Uni., Iran)
16:00-16:15	Study Of Robotic Arms With Flexible Elements For Wave Energy Conversion	A. Maravandi M. Moallem (Simon Fraser Uni., Canada)
16:15-16:30	The Role of Exterior Walls In Environmental Sustainable Design And Construction	Leila Mirsaedie (Islamic Azad Uni. – Iran)
16:30-16:45	Modeling of an integrated power system for the city of Shiraz	Mohammad Hadi Akbari, Mehdi Andisheh-Tadbir (Shiraz Uni. – Iran)
19:30 DINNER		
7 September 2011 Wednesday		
Parallel Session 7 (MARMARA Hall) “Bio-energy Applications” Chairman: Mr. Oliver Van Der Borgh		
09:00-09:15	Briquetting of Coal-Biomass Blends	Seza Gönen, Hanzade Haykırı Açma, Sadriye Küçükbayrak (Istanbul Technical Uni., Turkey)
09:15-09:30	Recent Developments On Product Gas Cleaning Technologies For Biomass Gasification	Wenbin Zhang, Hao Liu, Irfan Ul Hai, York Neubauer, Philipp Schröder, Holger Oldenburg, Alexander Seilkopf, Axel Kölling

		(Uni. of Nottingham – UK)
09:30-09:45	Feasibility of The Electricity Production From Forest Biomass in Turkey	Işık Taşkıran (General Direct. Forestry, Turkey)
09:45-10:00	The Effect of Alleviating the Sand Concrete by Wood Shavings on Wall Time Lag And Decrement Factor	Bencheikh Hamida, B. Belhadj, Med. M. Khenfer (Université Amar Teldji, Algeria)
10:00-10:15	Design, Fabrication And Evaluation of A Novel Biodiesel Processor System	Ahmad Abbaszadeh Mayvan, Barat Ghobadian, Gholamhassan Najafi, Mohammad Reza Omidkhan (Tarbiat Modares Uni., Iran)
10:15-10:30	Decision Process For Adoption Of Biogas Technology For The Sustainable Development In Uttaradit Province, Thailand	Chedsada Mingchai, Podjane Sangmanee (Faculty of Agriculture -URU)
10:30:10:45	Energy Balance Analysis for Potato Production in Hamadan Province of Iran	Mohamad Abasian, Barat Ghobadian, Gholamhassan Najafi (Tarbiat Modares Uni., Tehran - Iran)
Parallel Session 7 (FIRAT Hall) “Building Application” Chairman: Dr. Nasruddin Yusuf Rodjali		
09:00-09:15	Performance Investigation of Novel Building Integrated Heat Recovery System with Fibre Wick Structure for Cooling and Dehumidification	Mardiana-Idayu Ahmad, Saffa Riffat (Uni. of Nottingham – UK)
09:15-09:30	Long-Term Thermal Behavior of Energy Textile Constructed in Tunnel	Chulho Lee, Moonseo Park, Sangwoo Park, Byonghu Sohn, Hangseok Choi (Korea Uni. – Korea)
09:30-09:45	Sustainability Patterns in the Old Residential Fabric of Boushehr	Said Mahdi Rezaei Nab Mustafa Basiri (Islamic Azad Uni. – Iran)
09:45-10:00	Holistic System Architecture for Energy Efficient Building Operation	Hasan Ufuk Gökçe, Kamil Umut Gökçe, Raimar Scherer (İstanbul Bilgi Uni. – Turkey)
10:00-10:15	Construtability and Thermal Performance of Large size Cast-in-place Concrete Energy Pile	Sunhong Min, Chulho Lee, Hyungseon Koh, Jaihyun Yoo, Kyoung-sik Jung, Hangseok Choi (Korea Uni., Korea)
10:15-10:30	A Smart Tool For Assessing Energy Performance Of Buildings	Vangelis Marinakis, Charikleia Karakosta, Haris Doukas, John Psarras (National Technical Uni. of Athens – Greece)
10:30:10:45	Dynamic Architecture and Climatic Design A Four Seasons House (In Gorgan, Iran)	Noorjema Gorgani, Saeed Karimi Alavijeh, (Architectural School Of Esfahan, Iran)
Parallel Session 7 (SEYHAN Hall) “Energy Efficiency” Chairman: Prof. Ali Yousfi		
09:00-09:15	Effect of Interruptible Loads And Reliability On Optimal Sizing of An Islanded Microgrid	HassanzadehFard, S. M. Moghaddas-Tafreshi, Seyed Mehdi Hakimi (K.N.Toosi Uni.-Iran)
09:15-09:30	UK Dwelling Overheating Temperatures And Comfort Criteria Under Climate Change	Young Ki Kim, Hasim Altan (The Uni. of Sheffield – UK)
09:30-09:45	PSO Based Optimal Sizing of Distributed Energy Resources in Islanded Micro-Grid Considering Uncertainty	Fatemeh Tooryan, S. M. Moghaddas-Tafreshi, S. M. Bathaee, Hamid Hassanzadehfard (K.N.Toosi Uni.-Iran)
09:45-10:00	Energy Recovery From Rotary Kiln in Cement Process	Vedat Arı (Sakarya Uni. –Turkey)
10:00-10:15	Energy Saving in Building by Optimized Combined Cooling, Heating, and Power (CCHP) System	Saeed Karimi Alavijeh, Ali Behbahaninia, Mohsen Parvan (K.N.Toosi Uni., Iran)

10:15-10:30	Energy Saving From Stenter in Textile Finishing Mills	Emel Ceyhun Sabır, Funda Uçak (Uni. of Çukurova, Turkey)
10:30:10:45	Towards Sustainability Of Building Energy: A Case Study On Balance Of Energy Structure For A Green Energy Building	Yanjun Dai,Rui Li, Shuai Deng, Ruzhu Wang (Shanghai Jiao Tong Uni. - China)
Parallel Session 7 (CEYHAN Hall) “Solar Energy” Chairman: Prof. Mortaza Yari		
09:00-09:15	A novel multi-surface concentrating trough solar air collector and its experimental test	Zheng Hongfei, Tao Tao, Ma Ming, Kang Huifang (School of Mechanical of Beijing Institute of Technology, China)
09:15-09:30	Conversion efficiency of organic-inorganic solar cells using various ZnO nanorods shapes controlled with concentration of precursors	Soojeong Jo, Eunyoung Lee, Jeongae Park, Sangyup Kim, Jeonghwan Lee, Byung Ho Choi, Heung-Woo Jeon, Soon Wook Jeong, Sungjin Kim, Do Kyung Lee (Kumoh National Inst. Tech. –Korea)
09:30-09:45	Application of solar driven two-stage desiccant cooling /heating system	H. Li, Yan Jun Dai, Y.Li, D.La, R.Z. Wang (Shanghai Jiao Tong Uni., China)
09:45-10:00	Themodynamic And Enviro-Economic Analyses of Stand-Alone Solar Power Plants	Kandasamy Ravi Kumar, K. S. Reddy (Indian Institute of Technology Madras, India)
10:00-10:15	Performance evaluation of Solar Water Heating for Residential Application in Iraq	Mahmoud U. Jasim (Mosul Uni. – Iraq)
Parallel Session 7 (DICLE Hall) “Material Research” Chairman: Prof. Hongfei Zheng		
09:00-09:15	Experimental Investigations of the Effectiveness of the Phase Change Materials when coupled with pure and mix clay material	Moataz Khalifa, Siddig Omer, Saffa Riffat (Uni. of Nottingham – UK)
09:15-09:30	Structure and properties of CP Titanium Treated Layers by Pulsed Nd: YAG Laser	Abida Bahloul, M.C. Sahour, L. Lavisse, R.Oumeddour (Université 8 mai 1945 de Guelma - Algeria)
09:30-09:45	An Experimental Investigation of Selective CO ₂ Adsorption with differently pre-treated Zeolite ^{13X}	Sang-Phil Yoon, Young-Shin Jeon, Hyung-Teak Kim (Korea)
09:45-10:00	The Synthesis And Its Application of Titania Iron Doped Photocatalyst For Dye Sensitized Solar Cell	Amir Abidov, Jeonghwan Lee, EunYoung Lee, Li Li He, DaeWoo Park, SooJeong Jo, Jeong Ae Park, Soon-Wook Jeong, Sungjin Kim (Kumoh National Inst. Tech. - Korea)
Parallel Session 7 (HEYBELİ Hall) “Cooling&Refrigeration Systems” Chairman: Dr. Bun Tsuchiya		
09:00-09:15	Modeling The Cooling Effect of a Bioshader in the Hot Arid Climate	Khaled Al-Sallal, Laila Al-Rais (UAE Uni., UAE)
09:15-09:30	Surface Solar Cooling With Photo-Responsive Nanocomposites	D. Karamanis, E. Vardoulakis, E. Kyritsi, N. Ökte, G. Mihalakakou, T. Vaimakis (Uni. of Ioannina, Greece)
09:30-09:45	Determining Appropriate Method of Cooling Air in Desert By Implementing Value Engineering Methodology	Ali Mostafaeipour (Yazd Uni.-Iran)
09:45-10:00	Superficial evaporation in a forced convection of porous medium in transitory laminates regime “application on mint leaves drying”	Boumediene Touati,Lips Bernard Benyoucef Boumediene , Virgone Joseph (Uni. of Bechar)
10:00-10:15	Binary and Multicomponent Fluids For Ejector Refrigeration System	D. Buyadgie, O. Buyadgie, A. Chamchine, O. Drakhnia, S. Artemenko (Uni. of Central Lancashire – UK)

10:15-10:30	Cooling Gas Turbines Inlet Air Using Chilled Water and Seawater in Kuwait	Asad Alebrahim, Sorour Alotaibi (Kuwait Uni. - Kuwait)
10:30-11:00 Coffee Break		
Parallel Session 8 (MARMARA Hall) "Sustainable Environment" Chairman: Prof. Suzo Tanaka		
11:00-11:15	Improvement Of Water Uptaken Characteristics Of Perfluorosulfonic Acid Membranes With Radical Formation	Bun Tsuchiya, S. Nagata, K. Saito, T. Shikama (Meijo Uni., Japan)
11:15-11:30	A Study On Passive Detail And Technology Performance For Zero Carbon Green Home	Sung Eun Shin, Soo Am Kim, Yong Sang Yoon, Sun Hye Mun (Korea Institute of Construction Technology, Korea)
11:30-11:45	Influence of Indoor Environmental Quality on Occupant Comfort and Health	Touraj Ashrafian, Nazanin Moazzen Ferdos, Masoud Haghlesan (Islamic Azad Uni. – Iran)
11:45-12:00	A slide rule for noise measurement	Himanshu Dehra (Avenue Windsor, Canada)
12:00-12:15	An Analysis of The CO ₂ Emissions Mitigation Potential From Electricity Production Industry in Turkey	Betül Özer, Erdem Görgün, Selahattin İncecik (İstanbul Technical Uni.- Turkey)
12:15-12:30	Application and management of environmental technologies in UK schools: A case study	Masoud Malekzadeh, Dino Bouchlaghem, Andrea Wheeler (Loughborough Uni. -UK)
Parallel Session 8 (FIRAT Hall) "Solar Energy Research" Chairman: Prof. Yoshihiko Suzuki		
11:00-11:15	Study of A Solar Assisted Micro-Tri-Generation System	Ana Palmero, Armando Oliveira (Uni. of Porto – Portugal)
11:15-11:30	Experimental study of the performance of a capillary film solar still (single stage) in southern Algeria	M. Zeroual, H. Bouguettaia, D. Bechki, S. Boughali, B. Bouchekima and H. Mahcene (Uni. of Batna – Algeria)
11:30-11:45	Integrated Design of Solar and Algae Plant	Asfaw Beyene, Temesgen Garoma, David MacPhee (San Diego State Uni. - California)
11:45-12:00	Solar thermal power and solar desalination	Tayfun Arslan (Dicle Univercity – Turkey)
12:00-12:15	Optimization of An Absorption Solar Cooling System	Rabi Karaali (Kocaeli Uni. – Turkey)
Parallel Session 8 (SEYHAN Hall) "Bio-mass & Bio-fuel" Chairman: Dr. Khaulah Sulaiman		
11:00-11:15	Biodiesel a way to save humanity	Fariborz Aramesh (Azad Uni. – Tehran)
11:15-11:30	High Voltage/Low Amperage Current For Separation of Crude Glycerin From Biodiesel	Ahmad Abbaszadeh, Barat Ghobadian, Gholamhassan Najafi (Tarbiat Modares Uni., Tehran - Iran)
11:30-11:45	Enhancing Biodiesel Production from Waste Cooking Oil with Ultrasonics	Barat Ghobadian (Tarbiat Modares Uni., Tehran - Iran)
11:45-12:00	Optimization of a few fossil fuels and liquid biofuel blend properties using Genetic Algorithm	Pegah Nematizade, Barat Ghobadian, Gholamhassan Najafi, Mohammad Safieddin Ardebili (Tarbiat Modares Uni., Tehran - Iran)
12:00-12:15	Waste To Energy By Supercritical Water Gasification - Utilization of Residual By-Product Streams From The Pulp And Paper Industry	Ida Rönnlund, Lillemor Myrén (Åbo Akademi Uni. – Finland)
12:15-12:30	Comparision of Clostridium Beijerinckii NRRL B593 And Locally Isolated Klebsiella Pneumoniae in Regards To Their 1,3 - Propanediol Production From Glycerol And Effect of Co-Substrate Addition	Mine Güngörmüşler, Nuri Azbar (Ege Uni. – Turkey)
12:30-12:45	Advanced Pretreatment Process for Enzymatic	Prihardi Kahar, Shuzo Tanaka

	Saccharification of Rice Straw in Bioethanol Production	(Meisei Uni., Japan)
Parallel Session 8 (CEYHAN Hall) “Sustainable Buildings ” Chairman: Prof. Jayaraj Simon		
11:00-11:15	Monthly Mean Clearness Index for Few Iranian Cities	Omid Nematollahi, Pourya Alamdari, Ali Akbar Alemrajabi (Isfahan Uni. of Technology – Iran)
11:15-11:30	Uncertainty and sensibility analysis in energy building simulation: A probabilistic approach to the real estate market of apartments in Santiago de Chile	Felipe Encinas, Francisco Sanchez de la Flor, Alejandro Alejandro, Carlos Aguirre Nuñez (Université catholique de Louvain, Belgium)
11:30-11:45	Designing The First Green Kindergarten School in Isfahan, Iran	Elham Esmaili Shahzade Ali Akbari, Seyed Mohammad farid Ahmadi, Saeed Karimi Alavijeh (Azad Uni. of Khorasgan – Iran)
11:45-12:00	An investigation into current Chinese low energy buildings and the thermal comfort conditions in hot summer and cold winter climatic zone in China	Xi Wang, Hasim Altan (The Uni. of Sheffield – UK)
12:00-12:15	Optimizing Passive House Design with Microclimate Simulation	Min Kyeong Kim (Seoul National Uni. – Korea)
12:15-12:30	Thermal Analysis of a Controlled Environment Greenhouse and Utilisation Bioenergy in The Heating System	Işık Taşkıran, Kemal Taner (Eskişehir Osmangazi Uni. – Turkey)
Parallel Session 8 (DİCLE Hall) “Electrical&electronic components” Chairman: Prof. Taner Sengör		
11:00-11:15	A single source multilevel inverter design for renewable energy systems	Turev Sarıkurt, Abdulkadir Balıkcı (GYTE – Turkey)
11:15-11:30	A Unique Design Procedure for light-emitting diode (LED) Street Lighting System	Shih-Cheng Hu (National Taiwan Uni. Sci. Tech. – Taiwan)
11:30-11:45	Led Technology	Canan Perdahçı, Semih Karaca, Uğur Hanlı (Kocaeli Uni. – Turkey)
11:45-12:00	Optimization of The Solar Control Devices in Windows For Hot Climates	Silvia Arias (Uni. of Guadalajara - Mexico)
12:00-12:15	Study on the Acoustic Resonance Phenomenon of a Pair of Thermoacoustic Lasers	Seung Jin Oh, Kuan Chen, Yoon Joon Lee, Snag Woong Shin, Wongee Chun (Jeju National Uni., Korea)
12:15-12:30	Construction And Design of Impulse High Voltage Measurement System	Serkan Dedeoğlu, Serhat Yılmaz, Ahmet Merev, (TUBITAK - Kocaeli Uni. - Turkey)
Parallel Session 8 (HEYBELİ Hall) “Photovoltaic Applications” Chairman: Dr. Luc Rolland		
11:00-11:15	Modelling of an airflow window with a photovoltaic solar wall	H. Dehra (McGill Uni., Canada)
11:15-11:30	Performance Analysis of a Two-way Hybrid PV/Thermal Solar Collector	H. Morteza pour, B. Ghobadian, M. H. Khoshtaghaza, S. Minaei (Tarbiat Modares Uni., Iran)
11:30-11:45	Saffron Drying with a Heat-Pump Assisted Hybrid PV-Thermal Solar Dryer	Hamid Morteza pour, Barat Ghobadian, Mohamad Hadi Khoshtaghaza, Saeid Minaei (Tarbiat Modares Uni. , Tehran - Iran)
11:45-12:00	Pre-Feasibility Study of Hybrid PV Based Energy System for Residential Applications	Mustafa Engin (Ege Uni. Turkey)
12:00-12:15	Performance Evaluation of Monocrystalline And Polycrystalline PV Modules - A Case Study For Istanbul	Onur Elma, Uğur Savaş Selamoğulları (Yıldız Technical Uni. - Turkey)
12:30-13:30 Lunch		

Parallel Session 9, MARMARA Hall “Photovoltaic Applications” Chairman: Prof. Anita Sellstedt		
14:00-14:15	A Review On Performance Analysis of Photovoltaic/Thermal Collectors	Saffa Riffat, Erdem Cuce (Uni. of Nottingham - UK)
14:15-14:30	Photovoltaic System With Maximum Power Point Tracking Control And A Generalized Model of Grid Connected PV System	Taner Sengor, Sayema Shahidul (Yıldız Technical Uni. – Turkey)
14:30-14:45	Photovoltaic Energy Conversion Based on EV80C196MCS Microcontroller Evaluation Board for water Pumping System, Simulation and Realization	Mohamed Arrouf, Farida Benabid (Uni. of Batna – Algeria)
14:45-15:00	Model of A Photovoltaic Panel Emulator in Matlab-Simulink	Hayrettin Can (Firat Uni. –Turkey)
15:00-15:15	Performance Analysis of Induction Motor-Photovoltaic Multilevel Inverter System	Iqbal Messaïf, El Madjid Berkouk, Nadia Saadia (Houari Boumediene Uni. Sci. Tech., Algeria)
Parallel Session 9 (FIRAT Hall) “Energy, Environment and Public” Chairman: Prof. Mattheos Santamouris		
14:00-14:15	Sustainability Indicators in Traditional Sustainable Neighborhoods: Case Study of Tabriz City’s Districts in Iran	Masoud Haghlesan, Touraj Ashrafiyan, Mostafa Basiri, Nazanin Moazzen Ferdos (Islamic Azad Uni., Iran)
14:15-14:30	Policies and initiatives to achieve EU’s energy efficiency and environmental goals	Afroditi Synnefa, Matheos Santamouris (National Kapodistrian Uni. of Athens - Greece)
14:30-14:45	Greece and the growth of renewable energy technologies: A patent based analysis	Maria Markatou (Uni. of Athens – Greece)
14:45-15:00	Energy planning for Millenium City of National Capital Region Case study: Gurgaon, India	Shelly Dahiya (Global Development Network)
Parallel Session 9 (SEYHAN Hall) “Energy Systems Design & Modeling” Chairman: Prof. Heemyong Ro		
14:00-14:15	Evaluation of ground thermal conductivity by back-analyzing in-situ thermal response test (TRT)	Moonseo Park, Chulho Lee, Dongseop Lee, Shin-Hyung Kang, Hangeok Choi (Korea Uni. - Korea)
14:15-14:30	Daylighting Simulation of Sunpipes by using Ecotect and Radiance	Seung Jin Oh , Joon Ho Hyun , Jin Ho Jung, Yoon Joon Lee, Wongee Chun (Jeju National Uni., Korea)
14:30-14:45	Energy Saving in Climate Design of inter-City Welfare Services Complex	Leila Esmaeilian, Seyed Mohammad Farid Ahmadi, Saeed Karimi Alavijeh (Archtectural Uni. of Esfahan, Iran)
14:45-15:00	New process of Cold Fusion	Cpl Von Thule (SCM Internationale, France)
Parallel Session 9 (CEYHAN Hall) “Bio-mass Energy” Chairman: Dr. İnci Eroğlu		
14:00-14:15	Biofuel From Microalgae: Alternative, Sustainable And Renewable Fuel	Gholamhassan Najafi, Barat Ghobadian, Talal Yusaf (Tarbiat Modares Uni. - Iran)
14:15-14:30	Effect of storage methods on the physical and chemical properties of biomass fuels	Shalini Graham, Carol Eastwick, Colin Snape (Uni. of Nottingham – UK)
14:30-14:45	Bio-Energy from Agricultural Residues in Phitsanulok Thailand	Waraporn Rattanongphisat (Naresuan Uni., Thailand)
14:45-15:00	Biodiesel Production Potential from Edible Oil Seeds in Iran	Mohammad Safieddin Ardebili, Barat Ghobadian, Gholamhassan Najafi Ahmad Chegeni (Tarbiat Modares Uni. - Iran)
15:00-15:15	Impact of Air Distributor on Solid-Gas Flow Structure in A Bubbling Fluidized Bed for biomass gasification and	Zhufang Yang, Xianfeng Fan (The Uni. of Edinburgh – UK)

combustion		
Parallel Session 9 (DICLE Hall) “Energy management” Chairman: Ms. Melanie Teresa		
14:00-14:15	Energy Management In Developing Countries	Fatma Mohamed, Tomonari Yashiro (Uni. of Tokyo, Japan)
14:15-14:30	Improvement Of Energy Utilization In Natural Gas Dehydration Plant Through Reducing Electricity And Steam Demand	Hooman Farzaneh, Ehsan Zand Miralvand (Islamic Azad Uni. – Iran)
14:30-14:45	Measuring the Sustainability of Agricultural Energy Management System in Iran	Sevil Hatamifard (Islamic Azad Uni. – Iran)
14:45-15:00	IT maturity, Relational maturity and firm performance in Iran’s Electric Industry	Ali Azadeh, Masoud Afshari-Mofrad, Abbas Keramati (Uni. of Tehran, Iran)
15:00-15:15	Energy Management in Sustainable Agriculture: A Case Study of Khorasnan Province in Iran	Saeed Yazdani (Islamic Azad Uni., Iran)
Parallel Session 9 (HEYBELI Hall): “Solar Energy” Chairman: Dr. Yanjun Dai		
14:00-14:15	Natural convection counter-flow solar air heater	M. Bamgbopa, U. Atikol, M. Al-khawaja (Eastern Mediterranean Uni. - Northern Cyprus)
14:15-14:30	Wind and solar energy potential in Batna, Algeria	Aksas Mounir, Gama Amor (Uni. of Batna, Algeria)
14:30-14:45	Hybrid Biomass /Solar Micro-Chp System With Orc	Guoquan Qiu, Hao Liu, Abdulkarim Mayere, Barry West, Saffa Riffat (Uni. of Nottingham – UK)
14:45-15:00	Optimization of an Absorption Solar Cooling System	Rabi Karaali (Kocaeli Uni. – Turkey)
15:00-15:15	Employment Impacts of Solar Energy in Turkey	Müjgan Cetin, Nilüfer Eğrican (SİSTEM Yönetim Danışm. Ltd. Şti., Turkey)
15:15-15:30	Numerical Simulation And Optimization of Solar Tower	Yalçın Yükselentürk, Hasan Köten, Mehmed Rafet Özdemir, Nuri Kerem Binark, Mustafa Yılmaz (Marmara Uni. – Turkey)
15:15-15:30 Coffee Break		
Parallel Session 10 (MARMARA Hall) “Bio-mass” Chairman: Prof. Terry Payne		
15:30-15:45	Impact of operational conditions on biogas-microturbine performance and adaptability of the exhaust gas to CO ₂ enrichment into greenhouse	Junkeuk Park, Kwangbeom Hur, Sanggyu Rhim, Inhwa Lee, (Korea Electric Power Corporation, Korea)
15:45-16:00	Comparative Modelling And Optimisation of Different Pretreatment Technologies For Bioethanol Production	Melanie T. Ramirez-Jaramillo, Eric S. Fraga (Uni. College London, UK)
16:00-16:15	Integration of biomass Upgrading processes with communal CHP plants – Influence on energetic and environmental performance	Thomas Kohl, Timo Laukkanen, Carl-Johan Fogelholm (Aalto Uni., Finland)
16:15-16:30	Biogas plants in Pakistan army military farms	Muhammad Jawad (Pakistan Army- Pakistan)
16:30-16:45	Microalgal Biomass Production and Nutrient Removal Using Secondary Municipal Wastewater Effluent	Ünal Şen, Mirat Gürol, Ülker Diler Keriş, Gülfem Soydemir Neslihan Say, (GYTE – Turkey)
16:45-17:00	Economic Assessment of Three Biomass-Based Hydrogen Production Systems	Mehmet K. Coşce, Ibrahim Dincer, Marc A. Rosen (UOIT, Canada)
17:00-17:15	Catalytic Deoxygenation of Bio-Oil Derived From Pyrolysis Of Leucaena Leucocephala	Jiraporn Payornhorm, Kunn Kangvansaichol, Prasert Reubroycharoen, Prapan Kuchonthara, Napida Hinchiranan (Chulalongkorn University, Thailand)

Parallel Session 10 (FIRAT Hall) “Auxiliary Elements for Energy Systems” Chairman: Prof. Shinya Obara		
15:30-15:45	Life cycle assessment of a fluidized bed system for steam production	Eda Cetinkaya, Marc A. Rosen, İbrahim Dinçer (UOIT, Canada)
15:45-16:00	Development of a Guideline for Reducing Construction Waste	Sung Ok Lee, Soo Am Kim (KICT - Pakistan)
16:00-16:15	Living Adaptability With Nature Cycles Along With Sustainable Development	Shahram Nassehzadeh Tabriz, Fariborz Mahdavi Tabatabaei Fard, Elham Behboodi (Islamic Azad Uni., Iran)
16:15-16:30	Study On Micro Combustion Chamber of Gas Turbine	Sri Sudadiyo (UIKA, Indonesia)
16:30-16:45	Effects of nano-particles on the combustion performance of a diesel engine using biodiesel- diesel blended fuel	Mehdi Ghafoori, Mohammad Layeghi, Barat Ghobadian, Gholamhassan Najafi, Alimorad Rashidi, (Azad Uni., Iran)
Parallel Session 10 (SEYHAN Hall) “Efficiency in energy” Chairman: Prof. Marco Noro		
15:30-15:45	CSP: World at a Glance and Pakistan	Muhammad Ishfaq Khan, Zeeshan Najam (IU - International Islamic Uni. – Pakistan)
15:45-16:00	The Impact of Bionic Design in Proposing an Energy Efficient Future: Case study of Ocean-Scraper 2050	Ali Mohammad Sami Kashkooli Sahar Zahiri, Hasim Altan (The Uni. of Sheffield, UK)
16:00-16:15	Developing a renewable energy selection toolkit for Istanbul “The Istanbul Renewable Toolkit”	Tuğba Salman, Sofie Pelsmakers (UEL - Uni. of East London)
Parallel Session 10 (CEYHAN Hall) “Thermodynamic Applications” Chairman: Prof. Riichiro Mizoguchi		
15:30-15:45	Review of Freezing of PCM in Cylinders Under Conduction/Convection Controls	Subrahmaniyam Susarla (Stanley College of Engineering & Technology - India)
15:45-16:00	Thermodynamic analysis of a novel combined power – refrigeration cogeneration cycle	S. Mohammad S. Mahmoudi, D Aghazadeh, M. Yari (Uni. of Tabriz – Iran)
16:00-16:15	Different Configuration of A Gas Turbine Power Plant To Increase Energy Utilization Factor	Hossein Rabiei, Sahand Behboodi (K. N. TOOSI Uni. Tech., Iran)
16:15-16:30	Energetic And Economic Analysis of Different Heat Pump Systems For Space Heating	Marco Noro, Filippo Busato, Renato Lazzarin (Uni. of Padova - Italy)
16:30-16:45	Thermodynamic Analysis And Economic Evaluation Of Feasibility Of Supplementary Firing In An Unfired HRSG	Mohammad Tajik Mansouri, Hossein Rabiei, (Niroo Research Institute, Iran)
Parallel Session 10 (DİCLE Hall) “Energy policy” Chairman: Ms. Eugenia Mehleri		
15:30-15:45	Assessment of Resource Use in Turkish Household Sector and Labour Generation	Candeniz Seçkin, Ahmet Bayülken (İstanbul Technical Uni. – Turkey)
15:45-16:00	Eco-Innovative Policy Measures For The Turkish Automotive Industry	Hande Eryılmaz, Burcu Devrim İçtenbaş (Atılım Uni., Turkey)
16:00-16:15	Fair Electricity Transfer Pricing And Capacity Planning in Microgrid	Di Zhang, Lazaros Papageorgiou, Dan Brett, Nilay Shah (Uni. College London, UK)
16:15-16:30	CDM as a Solution for the World Energy Problems: An Indian Scenario	Simon Jayaraj, KJ Sreekanth (National Institute of Technology Calicut - India)
16:30-16:45	The Desirability of Energy Efficient Buildings in the UK	Lucelia Rodrigues, Tim Garratt (Uni. of Nottingham – UK)
16:45-17:00	Willingness to Pay For Renewable and Nuclear Energy Options in Turkey	Cem Tekesin, Shihomi Ara Aksoy (Hacettepe Uni. – Turkey)
Planery Session 3 Closing Talk (Prof. Dr. Sümer Şahin & Prof. Dr. Saffa Riffat & Prof. Dr. H. Mehmet Şahin)		

POSTER SESSIONS (*)

5 September 2011		
P1	Implementation of P&O Algorithm On FPGA For Photovoltaic Applications	A. Mellit, H. Rezzouk, A. Messai, B. Medjahed (Jijel Uni., Algeria)
P2	Atmospheric Radiation its nature, origin and applications: A basic summary for Engineers	Abdullrahman Maghrabi (King Abdulaziz Uni. Sci. Tech., KSA)
P3	Environmental payback time analysis for building-integrated photovoltaic system in Hong Kong	Jinqing PENG, Lin LU, Hongxing YANG, Jun HAN (Hong Kong Polytechnic Uni., China)
P4	Solar Powered Greenhouses	Shiva Gorjian, Teymour Tavakkoli, Barat Ghobadian (Tarbiat Modares Uni., Iran)
P5	Turning Wastewater (Greywater) Into Electrical Energy in Buildings	Sajad Mir Varzandeh, Sina Baghbani Kordmahale (Islamic Azad Uni., Iran)
P6	State feedback control technique of ASVC-based VAR flow compensation.	Mansour Benyamina (Uni. of Mostaganem, Algeria)
P7	Case Study of A Small-Scale Solar Chimney Power Plant in Kerman, Iran	Ehsan Gholamalizadeh, Seyed Hossein Mansouri, Masoud Iranmanesh (Shahid Bahonar Uni. of Kerman, Iran)
P8	A study on tar reduction of producer gas from biomass gasification with activated carbon and dolomite	Hyo Jae Jeong, Chang Won Yang, Jung Ho Hwang, Uen Do Lee (Yonsei Uni., Korea)
P9	A Study and Control of DSIM-Power Electronic Cascade fed by Photovoltaic Cell-Five-level NPC VSI	Berber Dalila, Abdelaziz Talha, Boucherit Mohamed Seghir (Uni. Sci. Tech. Houari Boumediene, Algeria)
P10	Different MPPT Methods for Photovoltaic Systems	Talha Abdelaziz, Boumaraf Houria, Omar Bouhali (Uni. Sci. Tech. Houari Boumediene, Algeria)
P11	MRAS Technique Speed Control of sensorless Induction Motor Drives Supplied by Photovoltaic Solar Energy	Larabi Abdelkader, S.Rafa , L. Barazane, M.S.Boucherit (Laboratory of the electric and industrial systems, Algeria)
P12	Embedded Wireless Sensor System For Applications in Building Energy Efficiency	M. Moallem, Y. Rashidi (Simon Fraser Uni., Canada)
P13	Chemical Composition Of Leaves Essential Oil Of Algerian Punica Granatum	Nacéra Tigrine, Samir Dameche (Université des Sciences et de la Technologie Houari Boumediene, Algeria)
P14	Efficiency of Energy in Road Lighting	Aida Spahiu, Orion Zavalani, Lindita Dhama (Albania)
P15	Development of a packed-bed desiccant dehumidifier for desiccant-evaporative cooling of buildings	Chris S. Tretiak, Nouri Ben Abdallah (Dalhousie Uni., Canada)
P16	Characterization of Thermoelectric Module as Generator	Rasit AHISKA, Hayati Mamur (Gazi Uni.- Turkey)
P17	Nanostructured Materials Based On Compounds IV-VI For Thermoelectric Energy Converters	Dmytro Freik, Rasit Ahiska, Igor Yurchyshyn, Lyubomyr Nykyruy Yuriy Lysyuk (Gazi Uni., Turkey)
P18	Theoretical And Experimental Analysis Of The Flow In And Around A Savonius Rotor	Zeroual Aouachria, Djoumati Djemaa, Haddad Djamel (Hadj Lakhder Uni., Algeria)
P19	Experimental investigation on performance of very small	Milad Zahir, Ali Akbar Alemrajabi,

	adsorption chiller	Ahmad Moheb (Isfahan Uni. Technology - Iran)
P20	Alcohols Mixture Electrooxidation On Pure Platinum	Mouna Nacef, Mohamed Lyamine Chelaghmia, Abed Mohamed Affoune (Université 8 mai 1945, Algeria)
P21	Evaluation of the Na ⁺ transport properties through a cation exchange membrane by the electrochemical methods :Linear sweep voltammetry and Chronopotentiometry	Kafia Oulmi (Uni. of Batna, Algeria)
P22	Chromium recovery from chromic sludge	Aboubaker Lembarek, Ameer Gouassmia, Mouna Nacef, Abed Mohamed Affoune (Université 8 mai 1945, Algeria)
P23	The simulation of drying characteristics of low rank coal under different blowing air speed	Dong-Ha Jang, Do-Man Jeon, Tae-Jin Kang Young-Shin Jeon, Hyung-Taek Kim (Ajou Uni., Korea)
P24	Combined Water-Oxygen Pinch Analysis to Optimize Wastewater Treatment Plant	Zahra Jandaghian (Islamic Azad Uni., Iran)
P25	Efficiency Bioethanol Dehydration Process:Pervaporation	Filiz Uğur, Nilüfer Hilmioğlu (Kocaeli Uni., Turkey)
P26	Mismatching Losses in Solar PV Plants	Jose VERA, Luis Marroyo, Miguel Garcia (Technical Uni. of Cartagena-UPNA)
P27	Optimization of the parameters of elaboration of the quaternary chalcopyrite CuInGaSe ₂ for photovoltaic applications	M. Mezghache, O. Benhalima, F. Chouia, B. Hadjoudja, B. Chouial, A. Chibani, (Laboratoire des semi-conducteurs, Algeria)
P28	Effect of EHD on forced Convection in a Tube by Using Helical Electrode	Mojtaba Mirhosseini, Ali Akbar Alemrajabi (Isfahan Uni. of Technology-Iran)
P29	Real Time Based Fuzzy Logic Distance Protection	Maamoon Al_Kababjie (Uni. of Mosul – Iraq)
P30	Thermodynamic Simulation of Solar Absorption Refrigeration	Djamil Lynda, Kerbache Tahar (Mentouri Uni. - Algérie)
6 September 2011		
P1	Desalination system powered by a hybrid waste heat and solar energy	Nabil Elminshawy, Ayman Mohamed, Mahmoud Kassem (Port-Said Uni., Egypt)
P2	The Strategic Techniques of the Control of Nutritional Elements in the Water Supply	Gafsi Mostefa, Kettab Ahmed, Djehiche Abdelkader (Uni. Ammar Telidji Laghouit, Algeria)
P3	Studies on trace element levels in Kiwira coal waste for sustainable utilization for energy in Tanzania	Duncan Mwakipesile (Mbeya Inst. Sci. Tech., Tanzania)
P4	Robust Frequency Control in An Isolated Power System Using Battery Energy Storage	Cuk Ali Nandar (Kyushu Uni., Japan)
P5	Performance Comparison Of The Glass Vacuum Tube And Flat Plat PV/T Heat Pump Systems	H. Chen, S. B. Riffat (Uni. of Nottingham – UK)
P6	Design and Experimental study to increase efficiency of organic Rankie cycle	Seok Hun Kang, Dae Hun Chung (KIER-Korea)
P7	An Experimental Study on Pyrolysis under isothermal condition of Indonesian Biomass (Empty Fluid Bunch: EFB)	Sang Shin Park, Jung Ho Hwang, Uen Do Lee, Tea U Yu (Yonsei Uni., Korea)
P8	Experimental Study of Convective Boiling in Minichannels: Cooling of The Pem Fuel Cells	Boudouh Mounir Louahlia-Gualous Hasna' Si-Ameer Mohamed Michel de Labachellerie (Uni. of Batna, Algeria)
P9	Capturing Dynamic Key Performance Indicators for building	Hussnan Shah (Technologies for

	sustainability	Sustainable Built Environments – UK)
P10	A Novel Ejector-Expansion Transcritical CO ₂ Cascade Refrigeration Cycles	Mortaza Yari, S.M.S. Mahmoudi (Uni. of Tabriz, Iran)
P11	Cooling And Heating Performance Evaluation of A Small Scale Ground-Coupled Heat Pump System	Byonghu Sohn, Chulho Lee, Moonseo Park, Hangseok Choi (Korea Institute of Construction Technology, Korea)
P12	Energy management strategies for grid integration of microgrids based on renewable energy sources	Javier Barricarte, I.San Martín, Pablo Sanchis, Luis Marroyo (Public Uni. of Navarre - Spain)
P13	Ethanol Reforming For Supplying Molten Carbonate Fuel Cells	Andrea Nicolini (Università degli Studi di Perugia, Italy)
P14	GA and BIP based Optimal Allocation of Phasor Measurement Units (PMUs) for Khouzestan Transmission Network complete observability, Considering Double Redundancy for Sensitive Substations	S. S. Mortazavi, M. Heidari, D. Mirabbasi (Shahid Chamran Uni., Iran)
P15	Prospect of Iran Natural Gas Export Projects	Hedayat Omidvar (National Iranian Gas Company – Iran)
P16	A Study of Optimum Conditions of Batch Culture Medium on Ethanol and Acetate Production Using Clostridium ljungdahlii	Bayarbat Ishvaanjil, Long Wang, Seong-Gu Hong, Kwon-Kyoo Kang, (Hankyong National Uni., Korea)
P17	Thermoelectricity based on novel materials: effective and environmentally safety method of direct energy conversion	Rasit Ahıska, Lev Bulat (Gazi Uni. - Turkey, St. Petersburg State Uni. - Russia)
P18	Performance of Solar Façade For Space Cooling During The Summer in The UK	Hoy-Yen Chan, Saffa Riffa, Jie Zhu (Uni. of Nottingham – UK)
P19	Changing of Thermal Properties of Sewage Sludge During Its Open-Air Storage	Koziol Michał, Landrat Marcin, Ścierski Waldemar (Silesian Uni. of Technology, Poland)
P20	Noise spectra of Potassium and Ammonium ion transport at a cation exchange membrane interface.	Kafia Oulmi, K.E Bouhidel, G.M. Andreadis (Uni. of Batna, Algeria)
P21	PV/T air collectors with natural air flow operation: Optimization using genetic algorithm and a case study	Amin Shahsavari, Pouyan Talebizadeh, Hamid Tabaei (Shahid Bahonar Uni., Iran)
P22	Design Of New Domestic Wind Turbines	Mohammed AlEid (Jubail Industrial College , KSA)
P23	Decision making model for selection between distributed and centralized generation	Nikzad manteghi, Mohammad Jafar Haddadpour Jahromi (Iran)
P24	Thermal compression oscillations in a semi-infinite compressed fluid	Himanshu Dehra (Concordia U., UQÀM)
P25	Small Signal Stability Analysis of A Power System Using Wavelets	Hiba Al-kaouz, Maamoon Al-Kababjie (Uni. Of Mosul – Iraq)
P26	Resistance of Treated Stain Less Steel To Cavitation Damage	Ahmed Alarabi, Fouad Abudaia (Al Fateh Uni. - Libya)
P27	Experimental study of a cabinet solar dryer in mixed and indirect modes	Mojtaba Dadashzadeh (Pro & Technical group, Iran)
P28	Model for optimal design of Presurized Fluidized Bed Combustion (PFBC) based on the mathematical programming	Hooman Farzaneh, Reza Fattahi (Islamic Azad Uni. – Iran)
P29	Using Self-Excited Induction Generator in the field of Renewable Energies "The kinetic energy in the variable speed of the free flow water in Tigris river"	Wael Hamdon, Maamoon Al-Kababjie (Uni. of Mosul - Iraq)
P30	First Principles Investigation On The Optical And Magnetic Properties of Transition-Metal-Doped XzNo	Boukortt Abdelkader, Ahmed SADOK, Rachida HOCINE (Mostaganem Uni.,

		Algeria)
P31	Investigation Of Flow Rate And Inlet Coolant Temperature Variation On Modular Helium Reactor With Equivalent Cylinder Model	H. Mehmet SAHIN and Omur AKBAYIR (Gazi University, Turkey), Cemil KOCAR (Hacettepe University, Turkey)

- (*) - Since the Scientific Committee assigned for the poster review may have questions and suggestions, please stand aside your poster(s).
- Please do not forget to get back your poster(s) at the end of assigned day.
 - The preferred dimension for each poster should be 100 cm height and 60 cm width as also stated in web-site of the conference.