



NURER 2014 – FINAL PROGRAMME
4TH INTERNATIONAL CONFERENCE ON NUCLEAR AND RENEWABLE ENERGY
RESOURCES (NuRER 2014)

26 Oct 2014 Sunday		
15:30-20:30 Registration		
27 Oct 2014 Monday		
08:00-09:00 Registration		
Opening Session		
09:00 - 09:10	Prof. Dr. H. Mehmet Şahin (Chairman)	
09:10 - 09:20	Prof. Dr. Sümer Şahin (Honorary Chairman)	
Plenary Session 1 (Hall A) Chairman: Prof. Dr. Sümer Şahin		
09:20-10:10	KEYNOTE: The ITER project – taking fusion energy to the industrial scale	Osamu Motojima (Director-General of the ITER Organization)
10:10-11:00	KEYNOTE: Renewable Electricity: Technology and Regulation	Prof. Dr. Cayetano López (Universidad Autónoma de Madrid, Spain)
11:00 – 11:20 Coffe Break		
Parallel Session 1 (Hall A) “Advances in Nuclear Technology”		Chairman: Prof. Dr. Cayetano López
11:20-11:40	Atmospheric dispersion modeling for an accidental release from the Bushehr Nuclear Power Plant using HYSPLIT	Kamal Hadad*, Peyman Dehghani, Mohammadreza Nematollahi
11:40-12:00	Generating the cross section library for VVER-1000 reactor based on JENDL IV by MCNPX	Mohammadreza Nematollahi*, Amin Golestani, Kamal Hadad
12:00-12:20	Optimum Design of Shim-rod Assembly Absorber Bundle For LBE-cooled Fast Reactor	Kanglong Zhang, bo Chang, Haomin Guo, Jianye Wang*, Yunqing BAI, Yican Wu
12:20-12:40	Radiation analysis of the spent fuel pool of the Bushehr nuclear power plant in the time of an incident	Kamal Hadad*, Amin Golestani, Mohammadreza Nematollahi
12:40-13:00	Influence of Void Fraction on BWR Spent Fuel Direct Recycling Scenario	Abdul Waris*, Zaki Su’ud, H. Mehmet Şahin, Erol Kurt, Sümer Şahin
Parallel Session 1 (Hall B) “Bio-energy researches and policy”		Chairman: Shadia Ikhmayies
11:20-11:40	Biogas production by anaerobic co-digestion of sewage slurry and cheese whey	Tirichine Nassima*
11:40-12:00	Effect of food wastewater on biomass and bioenergy production by microalgae	Min-Kyu Ji*, Hyun-Shik Yun, Sanghyun Park, Young-Tae Park, Jaeyoung Choi
12:00-12:20	Technology Development through Biofuel for Growing Energy Demand in Pakistan	Raza Haider*, Ayaz Jarwar, Attaullah Khidrani
12:20-12:40	Renewable policies and challenges in greece towards achieving its 2020 energy targets: A questionnaire survey	Panagiotis Kontakos*, Aristidis Bitzenis, Charisios Kafteranis
12:40-13:00	Numerical study of radiation effect on the municipal solid waste combustion characteristics inside an incinerator	Jingfu Wang*, Xue Yan Qing, Xinxin Zhang, Xinran Shu
Parallel Session 1 (Hall C) “PVs and energy efficiency”		Chairman: Omar Bait
11:20-11:40	Reactive power issues in grid connected photovoltaic systems	Kamel Abdeladim*, Saïd Ould Amrouche, Salim Bouchakour, Amar Hadj Arab, Farida Cherfa, Karim Kerkouche
11:40-12:00	Selection of the best location to set up solar plants in Turkey	Erdem Çiftçi*, Adnan Sözen, Amin Mirzapour
12:00-12:20	Power Quality Monitoring of the grid-connected PV System at CDER, Algeria	Kamel Abdeladim*, Amar Hadj Arab, Saïd Ould Amrouche, Salim Bouchakour, Farida Cherfa, Bilel Taghezouit
12:20-12:40	Prediction of energetic and exergetic performance of double-effect absorption system	Ahmed Hamed*, Abdalla Hanafi, Sayed Kaseb

12:40-13:00		
13:00-14:00 Conference Photo and Lunch		
Parallel Session 1 (Hall A) “Nuclear plants and fuels” Chairman: Abdul Waris		
14:00-14:20	Upper limits of accelerator-driven systems with breeder materials	Sümer Şahin*, Başar Şarer, Yurdunaz Çelik
14:20-14:40	The MYRRHA ADS project in Belgium enters the front end engineering phase	Jeroen Engelen *, Didier De Bruyn, Hamid Ait Abderrahim, Peter Baeten, Paul Leysen
14:40-15:00	Robust control of a nuclear research reactor based on multimodel and parallel distributed compensation	Amina Allalou*, Mohamed Tadjine, Mohamed Seghir Boucherit
15:00-15:20	Development of Virtual Reality-Based Simulation System for Nuclear and Radiation Safety and Its Application to Fusion and Fission	Tao He*, Liqin Hu, Pencheng Long, Qin Zeng, Yuetong Luo, leiming shang, shaoheng zhou, jinbo zhao, shu zhang, zihui yang, xiang cheng, ting li, jing wang, jie wang, Yican Wu
15:20-15:40	Analysis of turbulent heat transfer enhancement in VVER-1000 fuel rod bundle	Mohammad Nazififard*, Mohammadreza Nematollahi, Kune Y. Suh
Parallel Session 1 (Hall B) “Solar Energy Applications” Chairman: Murat Kunelbayev		
14:00-14:20	Estimation of global solar radiation for Kano region Nigeria based on meteorological data	Auwal Muhammad*, Tijjani Darma
14:20-14:40	Integration of solar PV technologies in cash crop production for Malaysia	M. Effendy Ya'acob, Wan Azman Saidi Wan Ngah, Hashim Hizam, Henry Tan, M. Amran M. Radzi, Noor Fadzlinda Othman*
14:40-15:00	Establishing new model for predicting the global solar radiation on horizontal surface in Osmaniye, Turkey	Bülent Yaniktepe*
15:00-15:20	An investigation of thermal performance and temperature control of stratified storage tank in solar-med desalination unit	Hatem Kayed*
15:20-15:40	Study of New Configuration Photovoltaic Pumping System	Mehdi Ouada*
Parallel Session 1 (Hall C) “Wind Energy Explorations” Chairman: Ismahan Mahdi		
14:00-14:20	Wind characteristics and wind energy potential analysis in five sites in Lebanon	Ghida Al Zohbi*, Philippe Bouillard, Patrick Hendrick
14:20-14:40	Wind power potential in selected Algerian Sahara regions	Dahbi Mammam*, Sellam Mabrouk, Benatiallah Ali, Harrouz Abdelkader
14:40-15:00	WFSG-based fuzzy sliding-mode control of wind energy conversion system under three-phase voltage dips	Tahir Khalfallah*
15:00-15:20	Power control of wind turbine based on fuzzy sliding-mode control	Tahir Khalfallah*
15:20-15:40	Determination of Weibull parameters for wind speed distribution at İncek region - Ankara	Levent Bilir*, Mehmet İmir, Yılser Devrim, Ayhan Albostan
15:40-16:00 Coffee Break		
Parallel Session 2 (Hall A) “Numerical Approaches” Chairman: Munir Nayfeh		
16:00-16:20	Comparative study of evaporative air cooling systems: Direct, indirect and two Stages	Walid Taane*
16:20-16:40	Design and functional analysis of earth- air heat exchanger (EAHE) systems in South East Algeria	Nadia Saifi*, Nouredine Settou, Hicham Necib, Rebha Ghedamsi
16:40-17:00	Numerical Study of a double slope solar still combined with a cylindrical solar water heater	Bait Omar*
17:00-17:20	Enhancement of PEM fuel cells performance at higher temperatures and lower humidities by high performance membran electrode assembly based on Nafion/Zeolite membrane	Yılser Devrim* Ayhan Albostan
17:20-17:40	Cutting down the Carbon Dioxide emission through cumulative community solar power plant: A case study	Nayma Moury* Mohammad Subail Alam

	in Dhaka	
Parallel Session 2 (Hall B) “Fluids and Energy” Chairman: Luis Coco Enriquez		
16:00-16:20	Applicability of CFD simulation of film boiling around a vertical cylinder for safety analysis of abnormal nuclear reactor operation	Ruben Arevalo*, Javier Muñoz-Antón, Alberto Abánades
16:20-16:40	Investigation of heat transfer enhancement and friction characteristic in a heat exchanger with coiled wire turbulators	H. Mehmet Şahin*, Eşref Baysal, Ali Riza Dal, Necmettin Şahin
16:40-17:00	Numerical Investigation of nanofluids swirl flow in circular tube equipped with twisted tape	Ali Akbar Abbasian Arani*, Saeed Khandan Siar, Behnam Ghadimi, Ghanbarali Sheikhzadeh
17:00-17:20	MHD numerical analyses of hydrodynamically developing laminar liquid Lithium duct flow	Selcuk Selimli*, Ziyaddin Recebli, Erol Arcaklioglu
17:20-17:40	Numerical study of flow accelerated corrosion in a t-junction using computational fluid dynamics	Mohammadreza Nematollahi*, Ali Erfaninia
Parallel Session 2 (Hall C) “Thermodynamic Issues in Energy” Chairman: Said Benkacali		
16:00-16:20	New generation line-focusing solar power plants with molten salts and supercritical Carbon Dioxide Joule Brayton Cycles	Luis Coco Enriquez*, Javier Muñoz-Antón
16:20-16:40	Integration between direct steam generation linear solar collectors and supercritical Carbon Dioxide Brayton Power cycles	Luis Coco Enriquez*
16:40-17:00	Contribution to the study of heat transfer of an air solar collector	Faris Aissaoui*, Abdelmoumen Hakim Benmachiche, Abdelhafid Brima, Yousef Belloufi, Amar Rouag
17:00-17:20	Fuzzy logic based MPPT for direct coupling PV water pumping system	Aicha Melit*
17:20-17:40	Effects of compression ratio on performance and emissions of a modified diesel engine fuelled by HCNG	Selim Tangöz*, Selahaddin Akansu, Nafiz Kahraman, Yusuf Malkoç
19:00 (CONFERENCE DINNER)		
28 Oct 2014 Tuesday		
Planary Session 2 (Hall A) Chairman: Eurico Seabra		
09:00-09:30	KEYNOTE TALK: Silicon nanoparticle renewable energy advanced devices	Prof. Dr. Munir Nayfeh (University of Illinois at Urbana-Champaign, USA)
09:30-09:50	KEYNOTE TALK: Effect of energy technologies on health and environment	Prof. Dr. Bülent Aydoğan (University of Chicago, USA)
Parallel Session 3 (Hall A) “Simulations of PV and fuel-cell systems” Chairman: Erol Kurt		
09:50-10:10	Modeling, evaluation and optimization of the complex strategies of maintenance of the photovoltaic systems (Part 1)	Ismahan Mahdi*, Bécharia Nadjji
10:10-10:30	Thermal degradation of poly methyl methacrylate (PMMA) doped with optically active molecules / applications in photovoltaic conversion	Mohammed AYAD*, Mohamed Fathi, Abdelkader Aissat, Mahfoud Abderazak, Toufik ZARADE
10:30-10:50	Design and simulation of a unified power quality conditioner (UPQC) fed by solar energy	Yahia Bouzelata, Erol Kurt, Rachid Chenni*, Necmi Altın
Parallel Session 3 (Hall B) “Auxiliary units for energy systems” Chairman: Youcef Soufi		
09:50-10:10	Computer aided design of a linear generator inductors	Dalila Lahouel*
10:10-10:30	Effect of impeller blockage ration on pump performance under cavitating and non-cavitating conditions	Ahmed Alarabi*
10:30-10:50	Experimental and numerical analysis of one dimensional heat transfer on open cell aluminum foams	Ahmet Ali Sertkaya*, Ali Ateş
Parallel Session 3 (Hall C) “Simulations in Nuclear Energy” Chairman: Young Nam Jang		
09:50-10:10	Thermal analysis of air blockage accident for a spent nuclear fuel dry storage cask	Sule Ergun*, Acelya Gokselkinav

10:10-10:30	Theoretical Study of the Phenomenon of Cold Fusion within Condensed Matter and Analysis of Phases (a, b, g)	Fulvio Frisone*
10:30-10:50	Thermal-neutronic analysis in a VVER-1000 nuclear reactor	Sinem Key Uzun, Kadir Yıldız, Hasan Çoşkun, Adem Acir
10:50-11:10 Coffee Break		
Parallel Session 4 (Hall A) “Hydrogen and combustion” Chairman: Özgür Aslan		
11:10-11:30	Conceptual design of Lead-Bismuth cooled modular reactor for Hydrogen production	Minghuang WANG*, Yunqing BAI, Chao LIAN, Jieqiong JIANG, Yican WU
11:30-11:50	Development of semi-spherical premixed porous metal matrix burner for combustion systems	Muhammed Omar*, Kemal Altınışık
11:50-12:10	Hydrogen production via the aqueous phase reforming of polyols over Pt/CMK-9 catalysts	Chul Ung Kim*, Tae-Wan Kim, Soon-Yong Jeong, Yoon-Cheol Yang, Ho-Jeong Chae, Ho-Dong Kim, Young-Ho Kim
12:10-12:30	Numerical modeling of Hydrogen diffusion in metals accounting for large deformations	Ozgur Aslan*
12:30-12:50	Comparison between rail system and bus transportation in terms of Carbon Dioxide (CO ₂) emissions	Mine Sertsöz*
Parallel Session 4 (Hall B) “Control of Radioactivity” Chairman: Mustafa İlbaş		
11:10-11:30	Automatic controller for daily load follow operation in an advanced nuclear power plant	Keuk-Jong Yu*
11:30-11:50	Thorium fuels for improved safety and sustainability of light water reactors	Klara Insulander Björk*, Øystein Asphjell, Saleem Drera, Julian Kelly
11:50-12:10	Ion exchange characteristics of Rhodium from a simulated radioactive liquid waste	Mustafa Can*, Emrah Bulut
12:10-12:30	Thermal Control Strategy of Lead-cooled Fast Reactor with Natural Circulation	Minghan Yang*, Jianye Wang, Peng Xu, Guangyu Zhang, L Hu
12:30-12:50	Modeling of Force Acting on a Heated Rod Surface in Subcooled Flow Boiling Condition	Mohammadreza Nematollahi*
Parallel Session 4 (Hall C) “Solar Energy Applications” Chairman: Kwan Hyun Kim		
11:10-11:30	Empirical correlation of global solar radiation with meteorological data for south of Algeria	Said Benkacali*, Kacem Gairaa
11:30-11:50	Simulation of Tracking Configuration Effect on The Performance of Solar Parabolic Trough – Storage Tank Combination	Hatem Kayed*
11:50-12:10	Tracing current-voltage curve of solar panel based on LabView Arduino Interfacing	Arar Hemza*, Haouam Abdeslam, Chennai Rachid, Marcel Pasquinelli, Damien Barakel
12:10-12:30	Study and modelling of a photovoltaic thermal hybrid solar collector with cylindro-parabolic concentrator	Kerbache Tahar*
12:30-12:50	Modelling and simulation of a hybrid photovoltaic (PV) module-electrolyzer-PEM fuel cell system for micro-cogeneration applications	Ekin Özgirgin*, Yılser Devrim, Ayhan Albostan
12:50-14:00 CONFERENCE PHOTO-2 and LUNCH		
Parallel Session 5 (Hall A) “Neutronics and reactor engineering” Chairman: Yican Wu		
14:00-14:20	MCAM 5.2: CAD Based Modeling Program for Multiple Neutronics and Radiation Transport Simulation Codes	Shengpeng Yu*, Mengyun Cheng, Pencheng Long, L Hu, Yuetong Luo, Qin Zeng, Dong Wang, Quan Gan, Wen Wang, Bin Wu, Liang Dong, Qi Yang, Yican Wu
14:20-14:40	Use of subcritical system in the nuclear fuel cycle of china	Yican Wu*, Minghuang Wang, Jieqiong Jiang, Xuwei Fu, Wenliang Zhang
14:40-15:00	Design and R&D activities of China LEAd-based reactors	Yican Wu*, Yunqing Bai, Yong Song, Qunying Huang, Zhumin Zhao, Chao Liu, Liqin Hu, Minghuang Wang
15:00-15:20	Utilization of Nuclear QA elements in R&D adopted from Nuclear QA Criterias for Nuclear Facilities	Kwan Hyun Kim*, Ji-Hoon Ha, Ja Young Kang, Ki-Jong Jang, Jae-Eon Jeon

15:20-15:40	Feasibility study of using nano-fluids as a neutron absorber in reactor emergency core cooling system	Mohammadreza Nematollahi*, Amin Golestani, Behnam Behzadinejad
Parallel Session 5 (Hall B) “Material modeling for energy systems”		Chairman: Numan Gözübenli
14:00-14:20	Investigation of microcrack effects on tubular solid oxide fuel cell production parameters by slip casting method	Uğur Çatik*, Abdullah Mat, Murat Canavar, Ömer Genç, Fatma Aydın, Yüksel Kaplan
14:20-14:40	Dynamic modelling of a small-scale standalone solar organic rankine cycle system	Khaled Hossin*, Khamid Mahkamov, Basim Belgasim
14:40-15:00	Energy analysis of a household vapor compressor refrigerator supplied by PV energy using a phase change material as a cold storage device	Mohand Berdja*
15:00-15:20	Prospect of carbon dioxide conversion into synthetic fuel using renewable energy in Algeria	Reciouï Bakhta*
15:20-15:40	Reduction of core damage frequency via new design for emergency core cooling system in a typical PWR	Mohammadreza Nematollahi*, Ali Erfaninia
Parallel Session 5 (Hall C) “Bio-products for Energy”		Chairman: Jacques Dufour
14:00-14:20	Biogas potential of Arapgir district and comparison of electricity consumption with biogas investment costs	Serhat Aksungur*, Tarkan Koca
14:20-14:40	Biodiesel production from waste cooking oil using bifunctional heterogeneous solid catalysts	Muhammad Farooq*
14:40-15:00	Scalable fabrication of electrodes of organic generators based on ordered colloidal structures by LbL method	Numan Gözübenli*
15:00-15:20	Temperature dependency of the physicochemical properties of a vegetable oil in the perspective to be used as power transformer insulation	Fouzia Chetibi, Abderrahim Reffas, Tahar Toudja*, Hocine Moulai, Azzeddine Nacer
15:20-15:40	Contribution to the study of the Chlorella growth grown in the region of Algeria-Ouargla for biofuel production	Souad Zighmi*, Djamal Zerrouki, Mohamed Bilal Goudjil, Salah Eddine I Bencheikh, Segni Ladjel
15:40-16:00 Coffee Break		
Parallel Session 6 (Hall A) “Material Research for Energy Systems”		Chairman: Rachid Chenni
16:00-16:20	Gypsum carbonation for the in-situ plant	Young Nam Jang*, Kyung Won Ryu, Hwanju Jo, Soo Chun Chae
16:20-16:40	Pico-chemistry: a possible clean and abundant energy	Jacques DUFOUR*
16:40-17:00	Photovoltaic and structural properties of Al-doped ZnO/Si Heterojunction deposited by spray pyrolysis method	Mohammadreza Khanlary, Farnia Rashvand*
17:00-17:20	Thickness dependence of the optical parameters of spray-deposited CdS:In thin films	Shadia Ikhmayies*
17:20-17:40	Electrochemical characterization of Al ³⁺ doped spinel cathode active nanoparticles for Li-Ion batteries	Emrah Bulut, Mustafa Can, Hatem Akbulut, Mahmut Özacar
Parallel Session 6 (Hall B) “Hydrogen production and burning”		Chairman: Mohammadreza Nematollahi
16:00-16:20	Combustion behaviours of hydrogen-enriched low calorific value coal gases: A numerical study	Mustafa İlbaş, Serhat Karyeyen*
16:20-16:40	Depletion evaluation of an ads using reprocessed fuel	Graiciany Barros, Carlos Velasquez, Cláudia Pereira*, Maria Auxiliadora Veloso, Antonella Costa
16:40-17:00	Development prospects of industrial hydrogen production from renewable energies in the south of Algeria	Chennouf Nasreddine*, Dokkar Boubekeur
17:00-17:20	Design of a pre-mixed porous radial burner for a uniform exit flow velocity	Essam Abo-Serie*, Kemal Altınışık, Muhammed Özgür
17:20-17:40	Flow rate affect in an electrochemical hydrogen compressor which has 50 cm ² active area	Ömer Genç*, Abdullah Mat, Murat Canavar, Nebi Yelegen, Yüksel Kaplan
Parallel Session 6 (Hall C) “Energy-environment explorations”		Chairman: Aicha Melit
16:00-16:20	Water Vapor Plasma Technology For Organic Waste	Viktorija Grigaitiene*, Andrius

	Treatment	Tamosiunas, Pranas Valatkevicius, Vitas Valincius
16:20-16:40	Using micro-turbine for pressure containment in urban water distribution networks	Morteza Ahmadifar*
16:40-17:00	Effects of sawdust blends on the stability and thermal characteristics of Nkpologu clay as a pyrolysis fixed-bed reactor lining	Stephen Nwanya
17:00-17:20	Mineral fibre catalyst for flue gas treatment	Vitas Valinčius*, Viktorija Grigaitiene, P; Romualdas Kezelis
17:20-17:40	Modeling of conical fluidized bed combustors: Influence of specularly coefficient on hydrodynamics and wall to bed heat transfer	Hamada Abdelmotalib, Ik-Tae Im*
19:30 DINNER		
29 Oct 2014 Wednesday		
Parallel Session 7 (Hall A) “Explorations on Auxiliary Energy Units” Chairman: Ahmed Hamed		
09:00-09:20	Turbulent natural convection-radiation interactions in a square enclosure	Ghanbarali Sheikhzadeh, Majid Dastmalchi*, Ahmadreza Rahmati
09:20-09:40	Method of calculation of optimum parameters of the spiral Chamber micro hydro electric power stations	Murat Kunelbayev*, Azhumakan Zhamalov, Azhumakan Zhamalov
09:40-10:00	A heat and mass transfer model in LaNi ₅ -H ₂ reactors	Murat canavar*, Abdullah Mat, Yüksel Kaplan
10:00-10:20	Investigation of anode and electrolyte layer manufacturing parameters for tubular SOFC	Abdullah Mat*, Murat Canavar, Ömer Genç, Fatma Aydin, Adem Çiçek, Yüksel Kaplan
10:20-10:40	Simulation of solar double-effect absorption air conditioning system in Egypt	Ahmed Hamed*, Abdalla Hanafi, Sayed Kaseb
Parallel Session 7 (Hall B) “CFD studies” Chairman: Minghuang Wang		
09:00-09:20	Design of regenerative organic Rankine cycle and selection of working fluid	Atilla Biyikoglu*, Asghar Mollazadeh
09:20-09:40	Pre-design and multi-objective optimization of organic Rankine turbine	Atilla Biyikoglu*, Murat Erbas
09:40-10:00	Experimental and numerical void fraction measurement in two- phase flow inside a vertical pipe	Mohammadreza Nematollahi*, Ali Erfaninia
10:00-10:20	Theoretical analyses of immiscible MHD pipe flow	Ziyaddin Recebli, Selcuk Selimli*, Mehmet Ozkaymak
10:20-10:40	Air/soil heat exchangers for desert climate	Yousef Belloufi*, Rachid Atmani, ABDELHAFID Brima, Faris Aissaoui
Parallel Session 7 (Hall C) “Material Production” Chairman: Vitas Valincius		
09:00-09:20	The influence of the substrate temperature on the optical parameters of spray-deposited SnO ₂ :F thin films	Shadia Ikhmayies*
09:20-09:40	Influence of trivalent cation doping on lattice vibrations of spinel cathode active nanoparticles for li-ion batteries	Emrah Bulut, Mustafa Can, Hatem Akbulut
09:40-10:00	Electrocatalytic Oxidation of Formic Acid on Controlled Shape Copper Modified Pt Nanoparticles Electrode: Morphology Effect	Gumaa M. El-Nagar*
10:00-10:20	Investigation of the Effect of Using the Nano-TEG on the Size of Reboiler of Dehydration Unit of South Pars 2nd Refinery	Mehdi Taherifar*, Ghanbarali Sheikhzadeh, Behrooz Zafarmand
10:20-10:40	Influence of ammonium salts solutions on indirect mineral carbonation of cementitious material	Hwanju Jo, So Hee Park, Ho Young Jo, Young Nam Jang, Myung Gyu Lee, Soo Chun Chae
10:40-11:00 Coffee Break		
Parallel Session 8 (Hall A) “Modelling in Energy” Chairman: Young Nam JANG		
11:00-11:20	Particle swarm optimization based sliding mode control of variable speed wind energy conversion systems	Youcef Soufi*


11:20-11:40	Optimal Wind based DG Placement Considering Monthly Changes Modeling in Wind Speed	Belal Mohamadi Alesar*
11:40-12:00	Simulation of machine vision-based solar tracking system	Nirudh Jirasuwankul*
12:00-12:20	Comparison Between Fuzzy and P&O Control for MPPT for Photovoltaic System Using Boost Converter	Tahir Khalfallah*, Doumi M'hamed,
12:20-12:40	GIS-based analysis of Hydrogen production from geothermal electricity using CO ₂ as working fluid in Algeria	Abderrahmane GOUAREH*, Boubekeur Dokkar
12:40-13:00	Mineral carbonation from serpentine by modified direct method	Kyoung Won Ryu, Sang Hoon Choi, Young Nam Jang, Soo Chun Chae
Parallel Session 8 (Hall B) "Energy systems design" Chairman: Hamada Abdelmotalib		
11:00-11:20	Simulation of graded band gap CdS/CIGS heterojunction solar cell by AMPS-1D	Ben Slimane Hassane*, Dennai Benmoussa, Helmaoui Abderrachid,
11:20-11:40	Evaluation of reliability of static converters for photovoltaic applications	Khelifi Fateh*, Bécharia NADJI, Tadjer Sidahmed
11:40-12:00	Micro cogeneration power plant design: Automation and control	Eurico Seabra*
12:00-12:20	Electric Energy Harvesting from Mechanical Energy by Contact Electrification based on Self-Assembled Colloidal Films	Numan Gözübenli
12:20-12:40	Optimization study of electricity production from geothermal resources by combined flash and binary systems	Mustafa AYDIN, Metin Gürü
12:40-13:00	ALFVEN modes in the presence of BOHM potential and SPIN-1/2 dense quantum magnetoplasmas	Zahoor Ahmed*
Parallel Session 8 (Hall C) "Planning and efficiency" Chairman: Nirudh Jirasuwankul		
11:00-11:20	The Evolution of Renewable Energy Sources in the Electricity Sector of Greece	Aristidis Bitzenis*, Dimitris Manolopoulos, Konstantinos Kitsopoulos, John Kaldellis
11:20-11:40	Energy performance of a sawdust dryer	Paraschiv Spiru*, Paraschiv Simona, Ion Ion
11:40-12:00	Evolutionary Approach for Hybrid Solar and Wave Energy Converter	Kyung-Ho Cha*
12:00-12:20	Determining optimum tilt angles of PV arrays for different seasons in turkey	Ahmet Şenpınar*
12:20-12:40	Geothermal energy and rural development	Salima Ouali, Khedija Bouzidi, Abdelkader Ait-Ouali
12:40-13:00	Geothermal resources in Algeria	Benziada Mebrouk*
13:00-14:00 LUNCH		
14:00- 14:15 Planery Session 3 Closing Talk and Invitation to NuRER 2016 (Prof. Dr. Sümer Şahin & Prof. Dr. H. Mehmet Şahin & Prof. Dr. Erol KURT)		

POSTER SESSIONS (*)

27-28 October 2014

P1	Experimental investigation of the optimum air passage in a flat plate air solar collector with two passages	Moukhtar Lati*, Slimane Boughali, Hamza Bouguettaia, Djamel Mennouche, Djamel Bechki, Ahmed Bahadj
P2	Optical comparison study of two sun tracking method applied for linear fresnel collectors	Amor GAMA*, Chérif LARBES, Ali MALEK, Fatiha YETTOU
P3	Suitable prediction of the compactness for different heights of walls	Sidi Med El Amine Bekkouche*, Tayeb Benouaz, Maamar Hamdani, Mohamed Kamel Cherier, Mohamed Rédha Yaiche, Noceir Benamrane
P4	Performance parameters determination by	Fatiha Yettou*

	experimental testing of box solar cooker with south tilted collecting surface	
P5	Assessment of the anemometer position on the wind turbine nacelle	Madjid Tata*, Smaïli Arezki, Ouahiba Guerri
P6	Fusion-driven transmutation of nuclear waste with tokamak neutron source	Bong Guen Hong*
P7	The effects of urbanization on environmental pollution	Özlem Sertkaya Doğan*
P8	The effects of human activities on environmental pollution	Mesut Doğan*
P9	Supercritical steam power cycle for line-focus solar power plants	Luis Coco Enriquez*, Javier Muñoz-Antón
P10	Conceptual design of a Lead-Bismuth cooled small modular reactor (CLEAR-SMR)	Minghuang Wang*, Chao Lian, Dong Wang, Jieqiong Jiang, Yican Wu
P11	Assessment of radioactive material dispersion from BUSHEHR nuclear power plant during normal and accident conditions	Ahmad Pirouzmand*, Peyman Dehghani, Kamal Hadad, Mohammadreza Nematollahi, Ebrahim Sharifi
P12	Monte Carlo calculation of radial burnup distribution of VVER-1000 fuel pellet with temperature effect	Fatemeh Roosta, Ahmad Pirouzmand
P13	Shading effects on the different configurations of solar cells PV	Chenni Rachid*, BENIS Halouma, HAOUAM Abdeslam
P14	Non-azeotropic working fluids used in organic rankine cycle for low grade energy utilization	Xinxin ZHANG*, Sujuan BAI, Maogang HE, Jingfu WANG
P15	Polybenzimidazole/titania composite membranes for high temperature proton exchange membrane fuel cell applications	Yılser Devrim*
P16	Safety analysis of LBLOCA with station blackout for the BUSHEHR's VVER-1000 nuclear power plant	Ahmad Pirouzmand*, Armin Ghasemi, Farshad Faghihi
P17	Generation of Multi-group Neutron Cross Sections Using Monte Carlo Method	Ahmad Pirouzmand*, Fatemeh Mohammadhasani
P18	Modeling and simulation of nuclear reactor dynamic equation using discrete-time cellular neural network (d-t cnn) and its implementation on fpga	Ahmad Pirouzmand*, Abolhasan Nabavi, Kamal Hadad
P19	VVER-1000 core monitoring using ex-core neutron detectors and neural networks	Ahmad Pirouzmand*, Shiraz University; Morteza Kazem Dehdashti
P20	Development of η -P matrix for nuclear power plants integrated with thermal cycle	Hyeonmin Kim, Yeon Kwan Kang*, Gyunyeong Heo
P21	Lab-scale coal gasification system simulating use of High Temperature Reactor excess heat for synthesis gas production	Adam Smolinski*, Natalia Howaniec
P22	Thermodynamic study on advanced configurations for CO ₂ Brayton cycles coupled with parabolic trough solar field	Luca Moretti, Luis Coco Enriquez, Javier Muñoz-Antón*
P23	Absorption of CO ₂ in Boron solutions and recovery as industrial chemical products	Murat Bilen*, Orhan Yılmaz, Metin Gürü
P24	Synthesis of LiBH ₄ as Hydrogen carrier and its catalytic dehydrogenation	Murat Bilen*, Orhan Yılmaz, Metin Gürü
P25	New technologies in the dairy industry wastewater treatment	Nacera Lahouel Benabbes*, Omar KHEROUA, Sara Lahouel
P26	Modern joining technics for novel materials in renewable energy systems	Hakan Ateş*, M.E. Çakır, I. Uygur
P27	Possibility of geothermal uses in Algeria	Khedidja Bouzidi*

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- (*) - 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.