



## CONFERENCE PROGRAM

Monday - May 2, 2016	
Room - Convention Hall	
09:00 - 09:20	<b>Opening Speeches</b> I. Dincer, Founding Chair O. Kizilkan, Conference Chair
09:20 - 10:50	Session Chair: P. D. Lund
	<b>Keynote Talk</b> I. Dincer "A Holistic Exergetic Approach in Developing Innovative Energy Solutions"
	<b>Keynote Talk</b> S. Dost "Growth of semiconductor single crystals for energy conversion"
10:50 - 11:10 Coffee Break	
11:10 - 12:40	Session Chair: I. Dincer
	<b>Keynote Talk</b> P. D. Lund "How to bridge old and new in energy? Importance of system integration"
	<b>Keynote Talk</b> Y. Demirel "Sustainability Assessment of a Crude Oil Refinery by Thermodynamic Analysis"
12:40 - 14:00 Lunch Break	

Monday - May 2, 2016

Parallel Session 1

	Room - Gogol	Room - Tolstoy	Room - Bunin	Room - Chekov
	Solar Energy - I	Fuels and Combustion Technology - I	Fluid Mechanics, Heat and Mass Transfer - I	Sustainable and Renewable Energy and Development - I
	Session Chair: M. Assadi	Session Chair: M. Ni	Session Chair: A. Bilgin	Session Chair: O. Altuntas
14:00 - 15:40	#398. "Photovoltaic power plant design considering multiple uncertainties and risk", Y. Merzifonluoglu, E. Uzgoren	#372. "Methane production in combined reactor integrating high temperature electrolyzer and Fischer-Tropsch section", B. Chen, M. Ni	#318. "Effect of length of the wavy shaped splitter plate on flow around a circular cylinder", M. Sarioglu, M. Seyhan, Y. E. Akansu	#393. "Achieving sustainable buildings via energy efficiency retrofit: a case study of an industrial building", M. Kılıç, A. F. Altun
	#386. "Key factors for the operation of a solar air collector: A parametric study", A. Çağlar, M. B. Bahadır	#305. "Production of a low-sulfur oil from scrap tires pyrolysis using a two-stage pyrolysis process and additives", G. G. Choi*, Y. K. Choi, J. Sik Kim	#289. "Experimental and numerical investigations of heat transfer in multi-port tubes", K. Ermis, H. I. Coban, M. Coban	#251. "Energy and exergy analysis of a solar air heater having transverse wedge shaped rib roughness", C. Yildirim, I. Solmus
	#271. "Thermal regulation enhancement of concentrated photovoltaic systems using phase-change materials", M. Emam, M. Ahmed, S. Ookawara	#149. "5 MW hybrid power generation in ORC unit from co-incineration of agricultural, forestry biomass waste and biogas in stoker and through parabolic solar panel (CSP)", Y. I. Tosun	#329. " Numerical investigation of forced convection flow and heat transfer of SiO <sub>2</sub> /water nanofluid in a 180 degree horizontal square cross-sectioned curved duct", R. Ekciler, H. H. Akbas, O. Yildiz, K. Arslan	#225. "Determining the location and species for establishing energy plantations, which are the renewable energy sources of Bartın region, through analytical hierarchy process (AHP) method", H. B. Ozel, S. Karayilmazlar, R. Kurt, E. Imren, M. Efe
	#298. "Solar radiation exergy and enviroeconomic analysis for the west Black Sea region in Turkey", Y. Kurtgoz, E. Deniz	#390. "Experimental investigation of the effects of water adding to the intake air on diesel engine performance and heat release analysis", Z. Sahin, O. Durgun, M. Tuti	#178. "MHD natural convection and entropy generation in a nanofluid filled cavity with a conductive partition", F. Selimefendigil, H. F. Oztop	#403. "Passive thermal management of a photovoltaic panel: Influence of fin arrangements", C. Yuksel, C. Kalkan, M. Aydin, G. Nergiz, M. A. Ezan
	#322. "Design and Performance Analysis of Linear Fresnel Reflector", M.Z. Yakut, A., Karabağ, A. Kabul, R. Selbas	#142. "Two-stage natural gas reciprocating compressor simulation with valve faults", M. Farzaneh-Gord, H. Khoshnazar	#321. "Investigation of the effect of the plasma actuators vertically placed on the spanwise of NACA0015 airfoil", H. Akbiyik, H. Yavuz, Y. E. Akansu	#153. "Sustainable re-use of dairy cow manure as bedding and compost: nutrients, pathogens and self-heating potential from increased residence time in a tumbling composter", J. Ackerman, E. Khafipour, N. Cicek
	15:40 - 16:00 Coffee Break			

Monday - May 2, 2016

Poster Session 1

Foyer Area

15:40 - 16:00

- #126. "Sizing of an off-grid photovoltaic installation", H. Oussama, B. Nefissa, A. Rabie, L. Larbi
- #134. "The dissolution behavior of lead oxide in aqueous organic acid solutions", S. Bendebane, S. Djerad, L. Tifouti
- #143. "Effects of parameters on the extraction yield of acid orange10 by ELM from an aqueous solution. application of Plackett-Burman design", F. Bendebanea, L. Bahloul, H. Meradid, M. S. Lachgarc, A. Boukhariab, F. Ismailac
- #151. "Contribution to the correction of the estimated heat loss in brick walls", F. Boudali Errebai, L. Derradji, M. Amara
- #155. "Effect of biopolymer on the properties of oil-in-water microemulsions", N. Mohammed, M. M. Nadji, M. Tir
- #156. "Taguchi optimization approach for methyl orange removal from aqueous solution using electrochemical process", M. Tir, M. Nedjhioui
- #159. "Multilayer perceptron model for predicting acute toxicity of fungicides on rats: Validation and domain of application", M. Hamadache, O. Benkortbi, S. Hanini, A. Amrane
- #161. "Dynamic thermal modelling of a passive house", L. Derradji, F.E. Boudali, M.Amara
- #163. "Neural network for modeling the rejection of organic compounds (neutral and ionic) by nanofiltration and reverse osmosis membranes taking into account the magnesium sulphate salt rejection", L. Khaouane, Y. Ammi, S. Hanini, O. Benkortbi, M. Hamadache
- #184. "Three-dimensional study of the variation of the velocity inlet on a parallel shear flow with variable density around an obstacle", M. Toumi, S. H. Salah, W. Hassen, S. Marzouk, H. B. Aissia, J. Jay
- #197. "Design optimization of marine current turbines using krill herd algorithm", M. Tahani, N. Babayan
- #199. "Thermodynamic and kinetic studies for the adsorption of amoxicillin onto modified wheat grains", O. Benkortbi, A. Boukhekhel, M. Hamadache, S. Hanini
- #204. "Numerical investigation of combined effect of fluid and thermal induced vibration on cantilever pipe", D. Mouloud, S. Mawhoub, B. Djilali, T. A. Miloud
- #207. "The impact of atmospheric emissions of Algerian cement manufactories on fauna and flora", K. Louhab, S. Boughrara, H. Aksas
- #208. "Enhancement of mixed convection heat transfer from heat sink with hollow perforated elliptic pin fins", F. Z. Bakhti, M. Siameur
- #212. "Some properties of the ITO nanolayers thin films produced by RF magnetron sputtering system", H. H. Yudar, S. Pat, Ş. Korkmaz, S. Özen, V. Şenay, R. Mohammadigharehbagh
- #218. "InGaN thin film production on the polyethylene terephthalate substrates by using Thermionic Vacuum Arc technique", S. Ozen, Ş. Korkmaz, S. Pat, V. Senay, H. H. Yudar, R. Mohammadigharehbagh
- #326. "Life cycle assessment of a maintenance process for a training aircraft", Y. Sohret, S. Ekici, O. Altuntas, T. H. Karakoc
- #302. "Study and simulation of spiral micro mixer for chemical use", B. Dennai, A. Boudjelaba, R. Khelfaoui, T. Chekifi
- #303. "Pistacia Atlantica leaves: Effect of temperature on the sorption isotherms", A. Abdenbi, B. Touati, M. Bouazza, A. Saad –B
- #308. "Mo doping effect on Co doped GaAs thin film layers produced by thermionic vacuum arc technology", S. Pat, S. Korkmaz, S. Ozen, V. Senay, H.H. Yudar, R. Mohamadigharehbagh

Monday - May 2, 2016

Parallel Session 2

Parallel Session 2				
	Room - Gogol	Room - Tolstoy	Room - Bunin	Room - Chekov
	Fuels and Combustion Technology - II Session Chair: N. Ozbay	Fluid Mechanics, Heat and Mass Transfer - II Session Chair: P. D. Lund	Sustainable and Renewable Energy and Development - II Session Chair: M. Gadalla	Fuel Cells - I Session Chair: O. Colpan
16:00 - 17:40	#379. "Regression models for predicting some important fuel properties of corn oil biodiesel-diesel fuel blends", B. Atilla, G. Mert	#293. "Wind driven stratospheric balloons", O. Kayhan, O. Yucel, M. A. Hastaoglu	#215. "Architecture in the net zero houses of the future", O. Gönülol, A. Tokuç	#412. "The effects of three different coating techniques on the performance of DMFCs", A. Ozden, M. Ercelik, Y. Nalbant, H. Kiyik, C. O. Colpan
	#380. "Rational and hyperbolic models to estimate kinematic viscosities of hazelnut oil biodiesel-diesel fuel blends", G. Mert, B. Atilla	#127. "Numerical and experimental optimization of CFB nozzles", M. A. Paksoy, S. O. Unverdi	#148. "Cost risk modeling for hybrid power generation from geothermal, biomass resources and CSP in Turkey - Southeastern Anatolia and Eastern Anatolia Region", Y. I. Tosun	#270. "Influence of polymer electrolyte membrane microstructure on the transport phenomena in direct methanol fuel cells", R. M. El-Zoheiry, M. Ahmed, S. Ookawara
	#371. "Second law analysis of a CI engine fuelled with biodiesel-diesel blends", A. Cakmak, A. Bilgin	#385. "Mixing using streamwise vortices: study the flow sownstream of mixer for different devices", H. Sheibani	#323. "Investigation of thermodynamic and environmental performance based on subcooling of refrigerants in direct expansion system for supermarket applications", O. Altuntas, M. Z. Sogut, E. Yalcin, T. H. Karakoc	#405. "Effect of flow field configuration on the performance of flowing electrolyte-direct methanol fuel cell", U. Gencalp, D. Ouelette, C. O. Colpan
	#360. "Production of hazelnut oil biodiesel through investigating KOH-catalyzed transesterification reaction parameters", G. Mert, B Atilla	#330. "CuO/water nanofluid flow over microscale backward-facing step", R. Ekiciler, K. Arslan	#229. "Economic and environmental analysis of a solar thermal heating system for residential buildings in Algeria", S. Bensalem, K. Imessad, A. Hamidat, M. Missoum	#110. "Studying the effect of electrolyte thickness on exergetic performance for an electrolyte supported SOFC stack", U. Akbulut, A. Midilli, I. Dincer
	#221. "Biodiesel production over CaMgAl Hydrotalcite like compounds from waste cooking oil", E. E. Cakirca, A. N. Akın	#287. "Determination of flow characteristics of multiple slot-jet impingement cooling", N. Kayansayan, E. Alptekin, C. Erdogan	#292. "Performance analysis of three soft computing methods for predicting the heat load of buildings", C. Turhan, T. Kazanasmaz, G. G. Akkurt	#103. "Design of a polygeneration plant based on solar power and solid oxide cells", N. C. Ullivius, M. Rokni

**Monday - May 2, 2016**

**Poster Session 2**

**Foyer Area**

17:40 - 18:00

- #104 "Photodegradation of C.I. Acid Yellow 23 Using Immobilized ZnO under Sunlight Irradiation", L. Aoudjit, F. Madjene, H. Lebig , B. B.A. Sebti , S. Igoud
- #119. "Desorption kinetics of crude oil from contaminated soil", S. Rahal, Z. Farouk, H. Guessaimi, S. Achouri
- #223. "Biodiesel synthesis by using the smart catalytic membrane", D Unlu, A. Hacioglu, N. Hilmioglu
- #226. "Characterization of bio-oil obtained from a food industry waste pyrolysis", N Ozbay, E. Yaman, A. S. Yargic, R. Z. Y. Sahin
- #230. "Synthesis gas production from tri-reforming and partial oxidation of simulated biogas over Ni/ZrO<sub>2</sub>-MgO-Al<sub>2</sub>O<sub>3</sub>", M. Dogan, E. Engintepe, O. Ozcan, M. E. Kibar, A. N. Akin
- #231. "Partial oxidation of biogas for hydrogen production over NiCe/MgAl Hydrotalcite-like catalyst", E. Engintepe, M. Dogan, O. Ozcan, M. E. Kibar, A. N. Akin
- #232. "Desalination in Algeria, case of Skikda seawater desalination plant", M. Rouainia, K. Mehri
- #235. "Performance enhancement of Ni-based Oxygen Carrier by Adding Other Oxygen Carrier", H. J. Ryu, D. H. Lee, C. K. Yi, S.H. Jo, J. I. Baek
- #237. "Decolorization of methyl orange. by the Fenton heterogeneous method, in the presence of nanoparticles of γ-Fe<sub>2</sub>O<sub>3</sub> maghemite as catalyst", M. S. Medjram, I. Boussof, S. Abramson
- #309. "Investigation of physical properties of CuInGa thin films", R. Mohamadiagharebagh, S. Pat, S. Korkmaz, S. Ozen, V. Senay, H.H. Yudar
- #312. "Numerical investigation of the performance and emission behavior of aircraft piston engine at different fuel blends", M. Tastan, Y. Ilker, O. Cam
- #314. "2D numerical simulation of laminar flow and turbulent flow around a wing profile of the type CLARK Y", M. Benbrik, M. Soubih, M. A. Tahar
- #320. "An alternative fuel additive for diesel and gasoline: Glycerol ethers", F. M. Tunc, N. Baglar, S. Celebi, O. D. Bozkurt, A. Uzun
- #367. "Thorium: New fuel for nuclear power plants (NPP)", I. Akkurt, K. Gunoglu
- #384. "MPPT with robust fuzzy control of squirrel-cage induction generator", S. Bellarbi, D. S. Koussa
- #389. "Study of the v3 fundamental Band of 12CD<sub>4</sub>", K. Abdelkrim, O. Okkacha
- #392. "Mixed oxides prepared from hydrotalcite like materials for hydrogen production via dry reforming of methane", Z. Abdelsadek, D. Halliche, V.M.Delacruz, J.P.Holgado, A. Caballero, O. Cherifi
- #396. "Audit quality maintenance function in the Algerian company", D. Mounira, H. A. Elias
- #399. "Nuclear energy: Is not that a green energy source?", K. Gunoglu, I. Akkurt

19:00 - 20:30

**Welcoming Reception**

Tuesday - May 3, 2016

Parallel Session 3

	Room - Gogol	Room - Tolstoy	Room – Bunin	Room - Chekov
	Solar Energy - II	Fuel Cells – II	Fuels and Combustion Technology - III	Thermal Systems and Applications - I
	Session Chair: S. Dost	Session Chair: N. Cicek	Session Chair: A. Midilli	Session Chair: M. Kilic
09:00 - 10:40	#374. "Optimization of tilt angles of PV arrays for different seasons", A. Sempinar	#397. "Evaluation of design and performance of two different power systems for a small UAV", M. Gadalla, S. Zafar	#376. "Coupled diesel engine hazardous emissions fixation, and microalgae biomass production enhancement", D. O. Corrêa, B. Santos, J.V.C. Vargas, A.B. Mariano, W. Balmant, M.P. Rosa, D.C. Savi, V. Kava, J.C. Ordóñez	#283. "IAEA DE-TOP tool for thermodynamics optimization of nuclear cogeneration: Desalination and district heating applications", R. S. El-Emam, I. Khamis
	#337. "Exergy analysis of a polycrystalline solar panel within Karabuk climate conditions", M. Bayat, M. Ozalp			
	#338. "A comparative and experimental study on different exergetic efficiency methods of a solar panel", M. Ozalp, M. Bayat	#413. "The effect of a bio-inspired flow field design on the performance of DMFCs", A. Ozden, M. Ercelik, D. Ouellette, C. O. Colpan	#183. "Optimization methods of radiative transfer calculation applied to a cylindrical sodium vapor plasma", S. H. Salah	#242. "Performance investigation of a geothermal powered organic Rankine cycle for natural working fluids", M. Alptekin, O. Kizilkan, A. Kabul, R. Selbas
	#299. "Comparison of regression analysis, ANN and ANFIS methods in the prediction of monthly mean global solar radiation: A case study", Y. Kurtgoz, E. Deniz	#115. "Two-dimensional multiphase non-isothermal modeling of a flowing electrolyte - direct methanol fuel cell", F. Atacan, D. Ouellette, C.O. Colpan	#313. "Utilization of Kayseri-Mentes iron ore as oxygen carrier in chemical looping combustion of syngas: Deconvolution of the gas analysis data" N. Dilmac, O.F Dilmac	#198. "Thermodynamic modeling and off-design optimum operating of combined power plant of Guilan-Iran based on empirical data", M. Amiraliipour, J. Yousefi, K. Atashkari, R. Kouhikamali
	#152. "A review of solar energy status in Iraq and current status", A. Emad, O. Kizilkan, A. Kabul	#160. "Direct formic acid fuel cells: Electrocatalysis of formic acid oxidation at Pd-Au binary nanocatalyst", I. M. Al-Akraa, A. M. Mohammad, M. S. El-Deab, B. E. El-Anadouli	#241. "Influence of boron loading sequence on HDS catalyst activity", Y. D. Teke, E. Y. Gumruk, O. Ozcan, M. E. Kibar, A. N. Akin	#177. "Thermodynamic analysis of the parabolic solar collector driven double-effect absorption cooling system" F. Yigit, A. Kabul, O. Kizilkan
	#357. "New climate zone definitions of Turkey by using typical meteorological year data", S. Yilmaz, I. Ekmekci	#336. "Investigation of Nafion/SiO <sub>2</sub> and Nafion/TiO <sub>2</sub> composite membranes for the DMFC applications", M. Ercelik, A. Ozden, Y. Devrim, C. O. Colpan	#203. "Effects of carbon dioxide dilution on pollutant emission of a turbulent hythane flames", I. Hraiech, R. Bougattaf, J. C. Sautet, A. Mhimid	#130 "Boiler parametric study of thermal power plant to approach to low irreversibility", S. Arefdehgani, O. K. Sadaghiyani
		10:40 - 11:00 Coffee Break		

Tuesday - May 3, 2016

Poster Session 3

Foyer Area

10:40 - 11:00

- #101. "Heat and mass transfer in a composite fluid-porous Layer", N. Hadidi, Z. Farouk, R. Bennacer, Y. Ould-amer  
 #107. "Thermal performance of Earth Ksourian houses in hot arid climate: case study Kasar Laghouat ", R. Moulay, H. Bencheikh  
 #122. "Experimental study and energy optimization of a solar domestic refrigerator incorporating a phase change materials", T. Ali, M. Mehdi, A. Mohammed, B. Mohand, F. Yahi  
 #123. "Removal of ions Pb<sup>2+</sup> and Cd<sup>2+</sup> from aqueous solution by containment geomaterials" S. A. Hamoudi, B. Hamdi, J. Brendle  
 #125. "Biodiesel production from non-edible oil using heterogeneous solid base catalysts", K. Khiani, S. Baroudi, S. Rafai, Z. B. D. Sayah, L. Tarabet, A. Sary, K. Loubar, R. Mahmoud, M. Tazerout  
 #142. "Two-stage natural gas reciprocating compressor simulation with valve faults", M. Farzaneh-Gord, H. Khoshnazar  
 #157. "Synthesis of an activated carbon prepared by phosphoric acid for chromium (VI) adsorption", L. Radia, B. Oumessaad  
 #175. "Determination of different metals in wastewater using new microsensors based on diamond doped with boron" M. L. Hamlaoui  
 #222. "A novel technique for the production of fuel bioadditive ethyl levulinate: Green process by the catalytic membrane", D.Unlu, N. Hilmioglu  
 #259. "Energy and exergy analysis of porous medium having different occupancy ratio", I. Kurtbaş, M. Şener, A. Yataganbaba  
 #315. "Deformation analysis of a reciprocating horizontal slot in elastohydrodynamic lubrication", A. Dekkiche, M. A. Tahar, M. Benbrik, P. Maspeyrot  
 #319. "Biosorption of eosin by activated sludge", H. Cherifi, S. Djezar, F. Bentahar  
 #324. "Development of treatment of chemical conversion containing salts of cerium and fluorides for protection against corrosion of magnesium alloys", M. Baccouche, A. Boukhouiete  
 #327. "Development and multi objective exergy based optimization of a solar micro CHP system based on organic Rankine cycle for domestic applications", A. Noorpoor, P. Heidamejad, S. Khanmohammadi, N. Javani  
 #342. "Uncertainty analysis of time series emission inventory of 2000-2015", A. Can  
 #345. "Dioxide titanium thin films elaborated by sol-gel method: Study of optical and electrical properties for photovoltaic application", N.H. Arab, A. Iratni, B. Capoen, M. Bouazaoui  
 #346. "Physical and mechanical study of ball-milled Ni60-Cr40 biomaterial", L. Dekhil, N. Zerniz, M. Bououdina, N. Haneche, E.B. Haneche, J. M. Greneche  
 #356. "Thermodynamical analysis of two-stage, mixing chamber R-717 refrigeration cycle", A. Özgür, H. C. Bayrakci, S. Çekin  
 #369. "Effects of the substrate carbon on the morphology and structure of iron borides layers developed in ordinary steels, and their wear resistance", M. Noureddine  
 #407. "The effect of ferritisation treatments on the structure of alloy cast iron", A. Belahcene, F. Goumeidane, N.H. Dkhili, A. Goumri, M. Lezid

Tuesday - May 3, 2016				
Parallel Session 4				
	Room - Gogol	Room – Tolstoy	Room - Bunin	Room - Chekov
	<b>Energy, Entropy and Exergy Analysis and Management - I</b> Session Chair: Y. M. Uzgoren	<b>Sustainable and Renewable Energy and Development - III</b> Session Chair: M. Afshar	<b>Fluid Mechanics, Heat and Mass Transfer - III</b> Session Chair: F. Selimefendigil	<b>Fuels and Combustion Technology - IV</b> Session Chair: J. Vargas
11:00 - 12:40	#377. "Energy and exergy efficiency evaluations of R134a clathrates with additives for cooling applications", S. Zafar, I. Dincer, M. Gadalla	#328. "Techno-economic assessment of solar-geothermal based multigeneration system for a community", F. Khalid, I. Dincer, M. A. Rosen	#411. "Energy and exergy analyses of a hybrid solar-geothermal power plant", D. M. Cakici, A. Erdogan, C. O. Colpan	#228. "Numerical investigation of fixed bed downdraft woody biomass gasification", E. S. Aydin, O. Yucel, H. Sadikoglu
	#296 "Energy and exergy analysis of a steam power plant considering effect of varying plant loads", M. Bilgili, M. Tontu, B. Sahin	#375. "PV array based smart home automation system", A. Sempinar	#402. "Phase Change Materials in Textile Fabrics: A Numerical Survey", M. A. Ezan, B. M. Gul, H. Kurt, A. C. Ezan, E. Alptekin	#233. "Experimental and modelling studies on gasification of wood pellet in a throated downdraft gasifier", O. Yucel, E. S. Aydin, A. Hastaoglu
	#317. "Evaluating exergetic sustainability indicators for an electrolyte supported SOFC stack", A. Midilli, U. Akbulut	#382. "Energy and exergy analyses of a solar energy driven multigeneration system for green buildings", Y. E. Yuksel, M. Ozturk, I. Dincer	#162. "Diesel-like fuel from waste engine oil by thermo-catalytic pyrolysis", L. Tarabet, M. Maamouri, Y. Zouad, K. Khiari, R. Mahmoud, T. Mohand	#348. "Pyrolysis of waste polyethylene plastics and investigation of the fuel potential of pyrolysis products", M. Sogancioglu, E. Yel, G. Ahmelli
	#265. "Exergy analysis of benzene production cycle", M. Taghavi, G. Salehi, R. Hajjabaee	#117. "Load side management in smart grids using a global optimizer", A. Reციoui, M. Djehaiche, A. Boumezrag	#401. "A Numerical Study on Phase Change inside a Spherical Capsule", E. Alptekin, M. Ozer, M. Top, N. Bozkurt, M. Zenginoglu, F. E. Yavuz, M. A. Ezan	#349. "Pyrolysis of washed waste HDPE plastics and production of epoxy composite from the pyrolysis char", M. Sogancioglu, E. Yel, G. Ahmelli
	#301. "Long term energy demand and supply projections and evaluations for Turkey", E. Ozdemir, M. Kilic	#216. "Control system for a novel photobioreactor in the building envelope", G. K�kt�rk, A. Toku, A. Unal	#131 "Performance study of a domestic refrigeration system couple with a phase change material", M.Mokrane, A.Tetbirt	#366. "Hydrodynamic study of a fixed bed bioreactor", B. Zouina, B. Zoubida, H. A. Eddine, K. Farida
12:40 - 14:00 Lunch Break				



Tuesday - May 3, 2016

Poster Session 4

Foyer Area

14:00 - 14:20

- #108. "Fuzzy control of the compression system by the throttle and coupled valves in petroleum companies", R. Zamoum Boushaki, F. Kessal
- #127. "Numerical and experimental optimization of CFB nozzles", M. A. Paksoy, S. O. Unverdi
- #166. "Thermoeconomic and environomic analysis of ISCCS in Algeria", T. Boushaki, P. K. Mansouri
- #169. "Feasibility study of a novel one axe sun tracking system with reflector displacement in parabolic trough concentrator", A. Gama, C. Larbes, A. Malek, F. Yettou
- #180. "A comparative investigation on Refinery Distillation Technologies", N. Shankar, V. Sivasubramanian
- #185. "Agricultural waste utilization for clean environment and sustainable living", P. S. Shehrawat, N. Sindhu
- #191. "Modeling of the processes of treatment of pharmaceutical wastewater by electrocoagulation using an artificial neural network", K. S. Hadjira, M. M. Nadji
- #192. "Energy efficiency and building environment", O. Abdeen
- #195. "Engineering applications of eight nature inspired optimization algorithms", M. Tahani, N. Babayan, N. Ahmadi
- #213. "Hybrid methodology for daily global radiation modeling in semi-arid climates: case study Ghardaia, Algeria", G. Mawloud, G. Kacem, R. Abdelaziz, B. Said
- #214. "Hydrochemical characterisation of Ghardaia 's water in geothermal system, Algeria", M. Redouane, N. Chabour, C. Nadir, G. Samira
- #249. "Rehabilitation alternatives for flue gas desulfurization units", A. I. Kaya, F. Aydin, M. Malkoc, S. Altinisik, O. O. Er
- #276. "Effect of manganese doped ZnS on structural, electronic and optical properties by ab-initio calculations", D.E. Aimouch\*, S. Meskine, R. Hayn, A. Boukortt
- #277. "Characterization of the surface rock reservoirs by Inverse gas chromatography", B. Kheiredine, H. Boualem, C. Rachel
- #331. "Air temperature data analysis using Fourier series for sites across Algeria", \* K. Abdeladim, S. Bouchakour, A. Razagui, S. Semaoui, S. O. Amrouche, A. H. Arab, F. B. Cherfa
- #332. "Investigation of the performance of different prime movers on small-scale and micro-CHP Systems", M. Afshar, A. A. Attar, E. Bolkhari
- #334. "Remediation of petroleum hydrocarbons-contaminated soil by Fenton-like oxidation", H. Ouriache, J. Arrar
- #343. "Evaluation of bio oils produced from pomegranate pulp catalytic pyrolysis", E. Pehlivan, N. Ozbay

Tuesday - May 3, 2016

Parallel Session 5

	Room - Gogol Thermal Systems and Applications - II Session Chair: Y. Demirel	Room - Tolstoy Solar Energy – III Session Chair: R. El-Emam	Room - Bunin Fuels and Combustion Technology - V Session Chair: H. M. Sheibani	Room - Chekov Energy, Entropy and Exergy Analysis and Management - II Session Chair: O. Kizilkan
14:20 - 16:00	#182. "Energy and exergy analyses of a biomass fired regenerative ORC system", O. Calli, C. O. Colpan, H. Gunerhan	#310. "Optimal off-design conditions for solar-driven organic Rankine cycles" C. Sevinc, E. Uzgoren #109. "Solar hybrid natural draft dry cooling for concentrating solar thermal plants", Z. Guan, K.I Hooman, H. Gurgenci, Z. Zou	#217. "Biodiesel production from high acid value sunflower oil by using zirconium sulfate as a heterogeneous acid catalyst", M. I. Senomyak, O. Ilgen	#272. "Advanced exergy analysis of an application of waste heat powered ejector refrigeration system to rotary kiln", A. Ustaoglu, M. Alptekin, M. E. Akay, R. Selbas
	#263. "An experimental investigation on exergy analysis of an ejector expansion refrigeration system", N. B. Sag, H. K. Ersoy, A. Hepbasli	#311. "One-dimensional transient thermal model for parabolic trough collectors using closed-form solution of fluid flow", E. Uzgoren	#227. "Production of upgraded bio-oils by biomass catalytic pyrolysis using low cost food industry waste", N. Ozbay, A. S Yargic, R. Z. Y. Sahin, E. Yaman	#114 "Exergetic, exergoeconomic, sustainability and environmental damage cost analyses of J85 turbojet engine with afterburner", O. Balli
	#194. "Identification of the most suitable desiccant cooling cycle for Iran", M. Tahani, N. Babayan, F. Mohandespour	#409. "Experimental analysis of solar space heaters performance", G. U. Alpaydin, M. S. Kucuka	#406. "Emission due to pollution from ships main engine and auxiliary machinery", M. Suner	#291. "Exergy optimization of the hybrid compression-absorption industrial refrigeration systems", M. Afshar, H. Rad
	#170. "Cooling of concentrated photovoltaic system using microchannel heat sink", A. Radwan, M. Ahmed, S. Ookawara	#144 "Experimental analysis of latent thermal energy storage for solar heating applications", S. Yildirim, O. Kizilkan, A. Kabul, G. Yildirim	#210. "Waste to energy with a combine membrane technology: Biobutanol production and purification", F. U. Nigiz, N. D. Hillmioglu	#273. "Thermodynamic evaluation of absorption-compression cascade refrigeration cycles for advanced exergy analysis", M. Alptekin, A. Ustaoglu, M. E. Akay, R. Selbas
	#205. "Transient analysis of an absorption solar refrigerator with external and internal irreversibilities", Y. Boukhchana, A. Fellah, A. B.brahim	#147. "Receiver temperature maps of parabolic collector used for solar food cooking application in Algeria", Y. Fatiha, G. Amor, P. N. Lal, A. Boubekour, M. Ali	#363. "Optimization of diesel engine performance using biodiesel by exergy analysis method", B. Najafi	#158 "A parametric study of thermal storage wall performance", M. Rezaei, U. Atikol
	16:00 - 16:20 Coffee Break			

**Tuesday - May 3, 2016**

**Poster Session 5**

**Foyer Area**

16:00 - 16:20

- #105. "Numerical study of natural convection in horizontal eccentric annuli using Cu-water nanofluid", T. Tayebi, M. Djezzar, M. Hamza
- #113. "Photocatalytic degradation of Atenolol by using TiO<sub>2</sub> catalysts under solar irradiation", M. Farid, Y. M. Nacera, L. Hafida, A. Lamine
- #116. "Solar photocatalytic degradation of tartrazine compound in wastewater using zinc oxide", L. Aoudjit, F. Madjene, H. Lebig, B. B. Aicha, S. S. Igoud
- #132. "Thermal and dynamics characterization of air diffuser with lobes", M. Braikia, A. Khellil, L. Loukarfi, H. Najj
- #138 "Polygeneration of heat, power and hydrogen from heavy refinery residues, using integrated gasification and molten carbonate fuel cell system", M. Astaneh, F. Golzar, R. Roshandel, A. B. Forough
- #275. "Performance of solar desiccant cooling system during typical summer day", A. Zouaoui, L. Zili-Ghedira, S. B. Nasrallah
- #281. "The nitrocarburizing effect on the formation of boronized layers of AISI 4130 steel", R. Noura, M. Z. Touhami, K. Abdelkader, K. Youcef, J. Xin
- #290. "Effect of zeolite supported iron catalyst on upgrading of pyrolysis bio-oil", E. Saracoglu, E. Apaydin-Varol, B. B. Uzun
- #294. "GECOL experience in sea water desalination plants", A. M. Elwaer, A. A. Hakam
- #295. "Evaluation of microalgae efficiency in the remediation of wastewater discharged into the Algerian coastal", H. B. Nedjari, S. C. Kerdjou, F. Z Ferradji, D. Tassalit, N. K. Merzouk, Z. Tigrine
- #306. "Air gasification of dried sewage sludge using a multi-stage gasifier: Effects of the equivalence ratio and activated carbon on tar removal", Y. K. Choi\*, G. G. Choi, J. S. Kim
- #341. "Modeling of household's CO<sub>2</sub> emission reduction by using algae pool", A. Can, I. A. Erat
- #353. "Effect of air exchange rate on the economic outputs of aircraft environmental control systems", R. Atilgan, M. Z. Sogut, O. Turan
- #354. "Interactions between polysaccharide and anionic surfactant and their effects on the interfacial and rheological behaviours", N. Mohammed, M. M. Nadjji, T. Mohamed, S. Abdelhak
- #355. "Numerical study of latent heat thermal energy storage inside a porous matrix", M. Fetiti, A. Alidrous
- #358. "Analysis of anionic surfactants in environmental samples", A. Ferradji, K. Sini, A.C. Ahmia, M. Idouhar
- #359. "Integrating CSP technology into existing old thermal power plants", J. O. Jaber, A. Abbas, A. A. Alawin, T. A. Rahmeh
- #362. "Modeling of tomatoes solar drying system in arid areas in Algeria", S. Manaa, A. Beatriz, D. Karlo, N. Moummi
- #388. "CD4 effective Hamiltonian in order 6 for the Pentad (2v4, v2+v4, v1, 2v2, v3). A simultaneous Line Position analysis of GS-GS, Dyad(v2, v4)-Dyad, Dyad-GS and Pentad-GS", O. Okkacha, K. Abdelkrim

19:30 - 21:00

Gala Dinner

Wednesday - May 4, 2016				
Parallel Session 6				
	Room - Gogol	Room - Tolstoy	Room - Bunin	Room - Chekov
	<b>Hydrogen Generation, Storage and Technology</b> Session Chair: M. A. Ezan	<b>Solar Energy – IV</b> Session Chair: A. Sempinar	<b>Fluid Mechanics, Heat and Mass Transfer - IV</b> Session Chair: S. L. Lee	<b>Sustainable and Renewable Energy and Development - IV</b> Session Chair: A. Tokuc
09:00 - 10:40	#128 "Effect of nitrogen doping on hydrogen storage of graphene-TiO <sub>2</sub> nanocomposites", Z. G. Bajestani, A. Yurum, O. Akhlaghi, Y. Yurum	#307. "Reduction of entropy production by using of solar cooling systems based on SOLITERM parabolic trough collectors combined with double effect absorption chillers", A. Lokurlu	#410. "Experimental investigation of a panel radiator with latent heat storage", G.U. Alpaydin, M.S. Kucuka	#181. "Cost modeling for thermal energy storage in hybrid power generation from CSP and biomass resources in Turkey - Southeastern Anatolia and Eastern Anatolia Region", Y. I. Tosun
	#404. "Exergy based environmental effect of PEM electrolyser integrated hydrogen gas storage system", M. Ozsaban, S. Inac, A. Midilli	#201. "Effect of solar - geothermal heat exchanger design and fluid type on the thermodynamic performance of a power plant", A. Erdogan, D. M. Cakici, C. O. Colpan	#167. "Numerical study of convective heat transfer in a nanofluid single-phase model", L. Z. Asma, B. Toufik	#209. "Vacuum stripping membrane desalination for Marmara sea-water", F. U. Nigiz, N. D. Hilmioglu
	#333. "Exergoeconomic analysis and optimization of a solid oxide electrolysis cell for hydrogen production", A. A. AlZahrani, I. Dincer	#361. "Exergetic and energetic performance evaluation of a flat plate solar collector in dynamic behavior", H. Mouna, B. B. Ammar	#196. "Horizontal axis tidal current turbines: analysis and optimization tools", M. Tahani, F. R. Astaraei, N. Babayan, H. Yousefi, R. Fahimi	#300. "Ventilation strategies for the preventive conservation of manuscripts in Necip Pasa Library, Izmir-Turkey", T. Coskun, C. D. Sahin, O. Gulhan, Z. D. Arsan, G. G. Akkurt
	#224. "Investigations on the effect of hydrogen on the emissions of dual fuel Diesel engine", D.B. Lata, S. Lahane	#344. "Solar assisted multi-generation system using nanofluids: A comparative analyzes", M. Abid, T. A. H. Ratlamwala, U. Atikol	#269. "Numerical modeling of thermal phenomena in PEM fuel cell", Z. Hbilate, D. Takky, Y. Naimi	#145. "Performance assesment of various greenhouse heating systems; a case study in Antalya", M. T. Balta, F. Yilmaz, R. Selbas
	#316. "Exergoeconomic and optimization of a solar based integrated energy system for hydrogen production", S. Khanmohammadi, P. Heidarnejad, N. Javani, H. Ganjehsarabi	#395. "The influence of urban space composition on the microclimate in different urban spaces in arid zone study case, Gardaia in south of Algeria", B. C Hamida, A. Rachid	#260. "Effects of the internal horizontal fins on the melting performance of paraffin", A. Yatanbaba, M. Sener, I. Kurtbas	#408. "Multi-criteria selection factors for evaluation of intelligent buildings. A novel approach for energy management", E. Asadian, K. T. Azari, A. V. Ardebili, S. Mahmoodkelayeh
		10:40 - 11:00 Coffee Break		

Wednesday - May 4, 2016

Poster Session 6

Foyer Area

10:40 - 11:00

- #102. "Experimental study of an underground tank for buildings conditioning", G. Nadhir, M. Abderrahmane  
 #139. "A methodology for multi objective optimization of solid oxide fuel cell/micro gas turbine integrated system based on optimal sizing and operation", A. B. Forough, R. Roshandel, F. Golzar, M. Astaneh  
 #164. "Experimental investigation on a continuous adsorption cooling system using Silicagel-Water as working pair", F. Bouzeffour, B. Khelidj, M. Abbas, M. T. Abbes, M. A. Djbiret  
 #173. "Extraction of essential oils from Citrus sinensis by electromagnetic induction heating", Y.E. Khadijja, Z. Yamina, M.M. Nadji  
 #176. "Techno-economic and environmental optimization of an improved combined heat and power system based on solid oxide fuel cells" F. Golzar, M. Astaneh, R. Roshandel, A. B. Forough  
 #193. "Effect of Pb content and heat treatment on thermoelectric properties of AgPb<sub>18-x</sub>SbTe<sub>20</sub> alloys", L. Sheng-Long, N. Jo-Kuang, T. Yu-Chih  
 #211. "Energetic and exergetic comparative analysis of three novel mixtures for an absorption/compression refrigeration system: R152a/DMAC, R123/DMAC and R114/DMAC", D.Lounissi, N. Bouaziz, L. Kairouani  
 #236. "Continuous operation results of 263 kWth chemical looping combustor", H. J. Ryu, D. H. Lee, G. T. Jin, S. Y. Lee, J. I. Baek  
 #240. "Some physical properties of a Mo and Ti co-doped GaAs thin film produced by thermionic vacuum arc technique", V. Senay, S. Ozen, S. Pat, S. Korkmaz, R. Mohammadigharehbagh, H. H. Yudar  
 #245. "Calculation of the cost energy and modelling of wind turbine noise at M'sila in Algerian highlands regions", M. Benmemdejahed, S. Mouhadje  
 #257. "Experimental energy, exergy and exergoeconomic analyses of a water source heat pump", A. Altiner, A. Yildiz, M. A. Ersoz  
 #258. "Energy and exergy analysis of a solar air collector having different resistance", M. Sener, A. Yataganbaba, I. Kurtbas  
 #262. "Thermal analysis of evaporative cooling system with desiccant dehumidification used for air conditioning", A. Zouaoui, L. Zili-Ghedira, S. B. Nasrallah  
 #274. "Modelling of radiation from satellite imagery to monitor the marine pollution parameters" H. Fouzia, B. N. E. Islam, A. Abdelkader  
 #285. "Energetic, exergetic and environmental assessments for a biogas co-generation plant", H. H. Ozturk, D. Kaya  
 #352. "Mathematical kinetic study of the RTM6/TiO<sub>2</sub> by thermal gravimetric analysis", L. Merad, F. Jochem, P. Bourson, B. Benyoucefa  
 #363. "Optimization of diesel engine performance using biodiesel by exergy analysis method", B. Najafi

Wednesday - May 4, 2016				
Parallel Session 7				
	Room - Gogol	Room - Tolstoy	Room - Bunin	Room - Chekov
	<b>Energy, Entropy and Exergy Analysis and Management - III</b> Session Chair: A. Kabul	<b>Fluid Mechanics, Heat and Mass Transfer - V</b> Session Chair: M. Suner	<b>Hydrogen Production</b> Session Chair: T. A. H. Rattlamwala	<b>Thermal Systems and Applications - III</b> Session Chair: H. Ganjehsarabi
11:00 - 12:40	#179. "Exergy analysis of nitrogen liquefaction process", A. Karabuğa, R. Selbaş, A. Kabul	#370. "Second law analysis of coupled heat and mass transfer through combined non gray gaz radiation within a cylindrical annulus", S. Abir, M. Akram, B. N. Faycal	#373. "Energy and exergy analysis of a novel combined system producing power, water and hydrogen", K. Parham, H. Alimoradiyan, M. Assadi	#106 "Exergetic assessment of PTSC integrated combined system working with CO <sub>2</sub> ", A. Kabul, O. Kizilkan
	#256. "Investigation of exergetic irreversibility with CO <sub>2</sub> emission measurement in industrial enamel oven", S. Vatandas, A. Avci, M. Z. Sogut	#335. "Impact of HP feedwater heater performance on the heat rate of Bisotoun steam power plant", S. D. Rad, S.R. Shamshirgaran, S. Khanmohammadi	#146 "Performance assessment of solar-based hydrogen production via H <sub>2</sub> SO <sub>4</sub> cycle", F. Yilmaz, M. T. Balta, R. Selbas	#383. "Thermodynamic analysis of an integrated system with a concentrating collector for multi-generation purposes", Y. E. Yuksel, M. Ozturk
	#391. "Thermodynamic performance analysis of a raw mill system in cement plant", M. Altinkaynak, M. Ozturk, A. K. Yakut	#248. "CFD simulations to optimize flow distribution in a FGD wet scrubber", O. Gozutok, M. Baranak, G. N. Ozyonum, A. I. Kaya	#351. "Energy and exergy analyses of a solar based hydrogen production and compression system", H. Ozcan, I. Dincer	#234. "A study on adsorption characteristics of activated Carbon-R134a and activated Carbon-R404a pairs", M. Kilic, E. Gonul
	#340. "Life cycle assessment of nuclear based ammonia production options: a comparative study", Y. Bicer, I. Dincer	#120 "Effects of heat generation / absorption and convective boundary conditions on natural convective boundary-layer flow from a vertical plate embedded in a porous medium filled with a nanofluid", A. A. Hamza, B. M. Najib, S. Djamel	#381. "Energy and exergy analyses of a solar, wind and geothermal based integrated system for hydrogen production", A. A. Kocer, M. Ozturk	#400. "Heat recovery analysis of a rotary kiln in cement industry", A. Y. Cumbul, M. A. Ezan, I. H. Tavman, A. Hepbasli, Z. Sogut
	#135 "A study on exergetic performance of Afsin lignite stoichiometric combustion process", S. Yalcin, A. Midilli, A. E. Ş. Konukman		#246. "Exergy analysis of liquid feed direct methanol fuel cell", V. Ravi, S. Joseph	#365. "Thermodynamic assessment of ozone friendly cascade refrigeration system using natural refrigerants", O. Kizilkan, H. C. Bayrakci, A. Kabul, S. Cekin
12:40 - 13:00 Closing Remarks				
13:00 - 14:20 Lunch Break				