

### CONFERENCE PROGRAM

<b>Sunday - June 8, 2014</b>	
<b>14:00-20:00</b> <b>Registration</b>	
<b>Monday - June 9, 2014</b>	
<b>Plenary Session 1</b>	
<b>ROOM - YAKUT</b>	
<b>09:00 – 10:15</b>	<b>Opening Speeches</b> I. Dincer, Conference Chair H. Liu, General Chair Video about Dr. Veziroglu's life
	<b>Landmark Talk</b> Session Chair: I. Dincer T. N. Veziroglu "Sensible Path to Clean Energy & World Federation"
<b>10:15-10:30</b> <b>Coffee Break</b>	
<b>Plenary Session 2</b>	
<b>ROOM - YAKUT</b>	
<b>10:30 – 12:45</b>	<b>Keynote Talks</b> Session Chair: H. Liu
	P. Lund "Clean energy systems as mainstream energy options"
	J. Andresen "The energy and water nexus: Solutions through clean technologies"
K. Kendall "Hydrogen and fuel cells in city transport"	
<b>12:45-14:00</b> <b>Lunch</b>	

## Monday - June 9, 2014

## Parallel Session 1

	ROOM - OPAL A	ROOM - OPAL B	ROOM – KEHRIBAR A	ROOM – KEHRIBAR B	ROOM – TOPAZ A	ROOM – TOPAZ B
	<b>Clean Coal Technology 1</b> Session Chair: T. M. Gur	<b>Energy Conversion</b> Session Chair: X. R. Zhang	<b>Hydrogen Energy 1</b> Session Chair: T. Yarman	<b>Fuel Cells 1</b> Session Chair: I. Eroglu	<b>Exergy Analysis 1</b> Session Chair: G. R. Grob	<b>Geothermal Energy</b> Session Chair: V. A. Sadykov
14:00 - 15:40	<p><b>Special Talk:</b> #ST1. "Carbon fuel cells: pathway to clean coal energy?", <u>T. M. Gur</u></p> <p>#223. "Numerical investigation of effects of hydrogen addition on combustion characteristics of low calorific value-coal gases", <u>M. Ilbas</u>, S. Karyeyen</p> <p>#107. "Black to green: Bioconversion of coal using laboratory coreflooding", A. Stephen, A. Baldygin, D. S. Nobes, <u>S. K. Mitra</u></p> <p>#747. "Oxy-desulfurization behavior of Tuncbilek lignite", <u>A. Kanca</u>, D. Uner</p>	<p><b>Special Talk.</b> #ST2. "Functional fluids and their thermal energy conversion by molecular design method", <u>X. R. Zhang</u></p> <p>#119. "An analytical method to optimally size a tri-generation system", <u>B. I. Kilikis</u></p> <p>#529. "Multi-objective optimization of a hybrid ocean thermal energy conversion system for hydrogen production", <u>P. Ahmadi</u>, I. Dincer, M. A. Rosen</p> <p>#358. "A reliability differential relay enhancement of power transformer", R. Bouderbala, <u>H. Bentarzi</u></p>	<p>#390. "Study on the preparation and characterization of Ru/Foam Ni catalyst for hydrogen production", Y. Wei, X. Zhao, B. Zhao, J. Shen, <u>H. Zhu</u></p> <p>#970. "Methane decomposition over iron catalyst for hydrogen production", A. A. Ibrahim, A. H. Fakeeha, <u>A. S. Al-Fatesh</u>, A. E. Abasaheed, W. U. Khan</p> <p>#553. "Photoelectrochemical stability improvement of Cu<sub>2</sub>O thin film in water splitting by tuning morphology and electrical conductivity", J. Han, X. Ning, H. Tang, <u>Y. Yang</u></p> <p>#191. "Alkali metal hydrazinidoboranes as solid-state hydrogen storage materials – Example of pure hydrogen-generating sodium hydrazinidoborane NaN<sub>2</sub>H<sub>3</sub>BH<sub>3</sub>", R. Moury, J. F. Petit, <u>U. B. Demirci</u>, T. Ichikawa, P. Miele</p> <p>#448. "Metal particle/graphene nanocomposites synthesized with an aid of supercritical fluid for promoting dehydrogenation of lithium aluminum hydride", C. H. Yang, D. H. Jiang, S. L. Lee, Y. C. Wang, M. T. Lee, <u>J. K. Chang</u></p>	<p>#1054. "Thermal management optimization of PEM fuel cell through effective cooling channels", <u>Y. Vazifeshenas</u>, K. Sedighi, S. Khostavan</p> <p>#978. "Three dimensional simulations of transport phenomena in proton exchange membrane fuel cell", <u>D. Omeiri</u>, D. E. Djafri</p> <p>#326. "High performance PEM fuel cell catalyst layers with hydrophobic channels", <u>G. S. Avcioglu</u>, B. S. Barım, B. Ficicilar, A. Bayrakceken, I. Eroglu</p> <p>#825. "Efficiency comparison of an internal reforming solid oxide fuel cell using different types of biogas and syngas types", <u>H. Ozcan</u>, I. Dincer</p> <p>#1494. "Three-dimensional modeling of a direct methanol fuel cell", E. Erey, <u>C. O. Colpan</u></p>	<p>#1605. "Energetic and exergetic performance evaluations of an experimental beta stirling machine", <u>H. Hachem</u>, R. Gueith, F. Aloui, I. Dincer, S. Ben Nasrallah</p> <p>#1079. "Energy and exergy analysis and optimization of a new combined supercritical carbon dioxide/organic Rankine cycle", S. M. S. Mahmoudi, M. A. Kordlar, M. Yari</p> <p>#281. "Comparative energy and exergy analyses of solar-based integrated hydrogen production systems", <u>T. A. H. Ratlamwala</u>, I. Dincer</p> <p>#603. "Exergoeconomic analysis of a frozen fruit production process: A case study for cherry", Z. D. Alta, <u>C. Ertekin</u></p> <p>#1078. "Exergoeconomic analysis of ammonia-water based power cycles", M. Yari, F. Mohammadkhani, <u>E. Ranibar</u>, S. M. S. Mahmoudi</p>	<p>#936. "CO<sub>2</sub> mineral sequestration in geothermal hot water springs in Turkey", <u>Y. I. Tosun</u></p> <p>#604. "The effects of the splitting exergetic destructions on components of the Bursa geothermal district heating system", N. Yamankaradeniz, <u>E. Pulat</u>, A. Kecebas</p> <p>#1601. "Determination of geothermal fields at Kizilcahamam (Ankara) using vertical electrical sounding (VES) and spontaneous potential (SP) methods", <u>H. Karakilcik</u></p> <p>#123. "Performance analysis of vertical earth pipe cooling system for subtropical climate", <u>S. F. Ahmed</u>, M. M. K. Khan, M. T. O. Amanullah, M. G. Rasul, N. M. S. Hassan</p> <p>#829. "Thermodynamic and thermo-economic evaluation of a hybrid fossil-geothermal power plant", D. Mirzaei, <u>S. Khanmohammadi</u></p>
	<b>15:40-16:00</b> <b>Coffee Break</b>					

## Monday - June 9, 2014

## Parallel Session 2

	ROOM - OPAL A	ROOM - OPAL B	ROOM – KEHRIBAR A	ROOM – KEHRIBAR B	ROOM – TOPAZ A	ROOM – TOPAZ B
	Sustainability Session Chair: I. Yildiz	Biomass and Biofuels 1 Session Chair: W. H. Chen	Hydrogen Energy 2 Session Chair: S. Sahin	Energy Storage 1 Session Chair: P. Lund	Modeling and Analysis Session Chair: J. Andresen	Power Generation Session Chair: N. Ghaddar
16:00 - 18:00	<p><b>Special Talk:</b> #ST3. "Local sustainability is the key for global sustainability", <u>I. Yildiz</u></p> <p>#327 "A simple quantitative model for evaluation of sustainable development index and its correlation with knowledge society index: Farther progress", <u>I. Berberashvili</u>, Z. Buachidze, A. Chirakadze, G. Kervalishvili, I. Khomeriki, Z. Gasitashvili, Z. Sikmashvili</p> <p>#1140. "Sustainable residential complex design between Kandovan and Hilevar villages in cold &amp; dry climate, Iran", S. Zoroufchi, E. Azami, R. Gholizadeh, <u>A. Azami</u></p> <p>#1700. "Air source heat pump heating and cooling in open, semi-closed and closed greenhouse systems in Canada", <u>I. Yildiz</u>, J. Y., J. Lowrey</p> <p>#8. "Capacity development for energy management in Libya", <u>S. P. Bindra</u>, S. Abulifa, K. Hammuda, A. M. Belashhar, A. M. Zriba, I. Saleh</p>	<p><b>Special Talk:</b> #ST4. "Current development of biomass torrefaction for solid fuel production", <u>W. H. Chen</u></p> <p>#996. "Structured nanocomposite catalysts of biofuels transformation into syngas and hydrogen: Design and performance", <u>V. A. Sadykov</u>, V. A. Sadykov, N.V. Mezentseva, M.N. Simonov, E. Smal, M. Arapova, S. Pavlova, Y. Fedorova A.-C. Roger, K. Parkhomenko, C. Mirodatos, O. Smorygo, J. Ross</p> <p>#895. "Bioenergy education at school level in India – Overcoming the challenges", <u>P. Halder</u></p> <p>#255. "Method to retain high fuel conversion efficiency of diesel engine running on biofuel", <u>M. G. Bannikov</u>, J.A. Chattha, I.P. Vasilev</p> <p>#740. "Evaporation characteristics of biofuel droplet with the addition of aluminum nanoparticles at elevated temperatures", I. J.aved, S. W. Baek, <u>K. Waheed</u></p>	<p>#1015. "Hydrogen production by steam electrolysis: and generate power output too?", <u>T. M. Gur</u>, B. Alexander, D. U. Johnson, R. E. Mitchell</p> <p>#572. "Study on the hydrogen storage properties and reaction mechanism of NaAlH<sub>4</sub>-Mg(BH<sub>4</sub>)<sub>2</sub> (2:1) with and without TiF<sub>3</sub> additive", N. Juahir, <u>M. Ismail</u></p> <p>#1303. "Clean energy technology development: hydrogen production by Escherichia Coli during glycerol fermentation", K. Trchounian, <u>A. Trchounian</u></p> <p>#467. "New catalysts for hydrogen production from H<sub>2</sub>S : Preliminary results", <u>N. O. Guldal</u>, H. E. Figen, S. Z. Baykara</p> <p>#1632. "Multi-objective exergoeconomic and exergoenvironmental optimizations of a four-step Cu-Cl cycle for hydrogen production", <u>A. Ozbilen</u>, I. Dincer, M. A. Rosen</p> <p>#21. "Hydrogen use for combustion processes in a Romanian Chemical Plant", <u>L. Paunescu</u>, M. Hritac, M. M. Despa, G. Surugiu, G. Darie</p>	<p>#176. "Real-time testing of phase-change materials for solar thermal energy storage", <u>A. Joseph</u>, M. Kabbara, D. Groulx, P. Allred, M. A. White</p> <p>#1600. "Investigation of heat storage performance of a solar pond with potassium chloride", <u>M. Karakilcik</u>, I. Bozkurt, I. Balkaya, I. Dincer</p> <p>#1159. "Fabrication of based fuel storage-clathrate hydrate by experimental study under phase envelope", <u>S. Promkotra</u>, T. Kangsadan</p> <p>#1040. "Investigation of the efficiency of redox flow cells for large scale energy storage applications", M. Mortada, <u>I. Hassan</u>, Y. Youssef</p> <p>#78. "Thermochemical solar energy storage via redox oxides: development of a continuous rotary kiln reactor for redox reactions with cobalt oxide", <u>S. Breuer</u>, S. Tescari, A. Ulcyfer, L. De Oliveira, J.-P. Säck, M. Roeb, C. Sattler</p> <p>#1138. "Prediction of the temperature distribution in the stone battery of thermal energy using neural modeling methods", <u>P. Boniecki</u>, J. Dach, J. Przybył, A. Lewicki, W. Czekala, A. Pilarska, M. Zaborowicz, P. C. R. Carmona</p>	<p>#1351. "Modeling and simulation of diesel, biodiesel and biogas mixtures driven compression ignition internal combustion engines (ICE)", V. Graciano, <u>J. V. C. Vargas</u>, J. C. Ordonez</p> <p>#1604. "Void fraction influence over aqueous foam flow: Wall shear stress and core foam evolution", R. Chovet, <u>F. Aloui</u></p> <p>#202. "Numerical simulation of nonlinear waves in numerical wave tank using the boundary element method", <u>R. Alamian</u>, R. Shafaghat, M. Ramzan-Nejad, S. J. Miri</p> <p>#571. "Effect of paddle wheel on the fluid dynamic characteristics of algal raceway ponds", H. Ali, T. A. Cheema, <u>C. W. Park</u></p> <p>#985. "Evaluation of thermal properties of refrigerant clathrates with additives", <u>S. Zafar</u>, I. Dincer</p> <p>#850. "Numerical investigation of airflow around a horizontal axis wind turbine", <u>M. Tahani</u>, M. Moradi</p>	<p>#1006. "Electricity trade patterns in a network: Evidence from the Ontario Market", <u>T. S. Genc</u>, P. O. Pineau, E. Yazgan</p> <p>#124. "Cost optimization of an off-grid hybrid power system - A statistical model", <u>S. Ray</u>, D. Debnath, A.K. Chakraborty</p> <p>#990. "Technical and economic design of an off-grid photovoltaic-battery-diesel generator system", M. Bortolini, M. Gamberi, <u>A. Graziani</u>, F. Pilati</p> <p>#686. "Modeling and transient simulations of 30 MW solar thermal electric power plants in the Northeast Mediterranean Region", <u>S. Bilyaz</u>, R. Singh, A. Karshenass, D. Baker</p> <p>#804. "An integrated energetic-exergetic evaluation of a steam power plant performance", <u>S. R. Shamshirgaran</u>, S. D. Rad, P. Ahmadi</p> <p>#455. "Sustainable small scale electric power generation and micro-grids", <u>Y. M. Amani</u>, R. Aragon</p>
	<b>19:00</b> <b>Welcoming Reception</b> <b>(WOW Istanbul Hotels &amp; Convention Center)</b>					

## Monday - June 9, 2014

## Poster Session 1

13:30 – 18:00

- #4. "Governance of renewables-The key to India's sustainable energy needs", S. K. Sharma
- #5. "Valorization of the refrigerating machines heat. Case of an air-conditioner coupled to a sea water still", B. S. Romdhane
- #9. "Potential of a swirling fluidized bed for biomass drying", M. F. Mohideen
- #14. "Design and experimental testing of a series of horizontal parabolic trough solar collector", F. M. Abed
- #15. "Optimum high-quality ceramic support like SiC, Al<sub>2</sub>O<sub>3</sub> & TiO<sub>2</sub> for Cobalt as a very active metal for Fisher-Tropsch-Synthesis in a fixed bed reactor configuration", S. H. Ansari
- #18. "Comparative study of spwm and hepwm-based photovoltaic inverter", D. Bendib, M. Laour, C. Larbes, F. Akel, M. Chikh, A. Mahranr
- #22. "Simulink based modeling of an MPPT for maximum power generation hybrid photovoltaic/wind system", B. Yacine, Y. Ali
- #23. "Study of a photovoltaic system", Y. Ali, B. Yacine, B. Massoued, Z. Khaled
- #27. "Performance characteristics of bioethanol-biodiesel-diesel fuel blends used in a common rail diesel engine", H. Aydogan, A. E. Ozcelik, M. Acaroglu
- #28. "Immobilization as a tool for sustainable biohydrogen production by model microalgae Chlamydomonas reinhardtii", S. Oncel, A. Kose
- #32. "Enabling transition to renewable energy in the Sultanate of Oman", Y. Charabi, A. H. Al-Badi
- #34. "Environmental kuznets curve: to confirm or not to confirm? An international review", R. Inglesi-Lotz
- #35. "The effects of mesh and interconnector design on SOFC performance", M. Canavar, B. Timurkutluk, Y. Kaplan, M. D. Mat, T. N. Veziroglu
- #38. "Effect of calcination temperature on the hydrogen storage capacity of nickel-palladium nanoalloy", S. A. Tirmizi, M. Imran, M. H. S. Wattoo, Z. Arifin, M. M. Mazhar
- #40. "Removal of salicylic acid in aqueous phase by photocatalytic oxidation", R. Djouder, N. A. Laoufi, F. Bentahar
- #43. "Impact of the transport on the island heat urban", H. Louiza, A. Zeroual
- #44. "A review of voltage control technique of grid connected distributed generations", S. K. Singh
- #53. "Nitrous oxide decomposition over Al<sub>2</sub>O<sub>3</sub> supported noble metals (Pt, Pd, Ir): Effect of metal loading and feed composition", E. Papista, E. Pachatouridou, E.F. Iliopoulou, A. Delimitis, G. Goula, I.V. Yentekakis, G.E. Marnellos, M. Konsolakis
- #56. "Sliding mode control strategy for analysis and simulation of maximum power point tracker of photovoltaic system", B. Abdelhaim
- #63. "Inlet methane temperature effect at a planar SOFC thermal field under direct internal reforming condition", H. Abdenebi, B. Zitouni, H. B. Moussa, D. Haddad, H. Zitouni, S. Youcef
- #65. "The effects of different climates on energy consumption of an individual house in Algeria", H. Ouahid
- #70. "The degradation of forest ecosystems and their impact on the environment in Belzma national park Belzma of Eastern Algeria", R. S. Sihem, N. Cemali, B. A. Et Cheurfi Meriem
- #73. "Metal dispersion and interaction with the supports in the coke production over ethanol steam reforming catalysts", G. Ramis, I. Rossetti, E. Finocchio, M. Compagnoni, M. Signoreto, A. Di Michele
- #74. "Water is the ultimate source of hydrogen energy: Citations and quotations", H. K. Abdel-Aal, N. Veziroglu
- #77. "Study of the effect of magnetic field on the ionization of the plasma of the arc of a circuit breaker", B. Hamaidi, S. Rouabhia, H. Mahdjoub, A. Haddouche,
- #82. "On hydrogenation and dehydrogenation of graphene layers nanostructures: Relevance to the hydrogen on-board storage problem", Y.S. Nechaev, T. N. Veziroglu
- #84. "Redox model for anode supported solid oxide fuel cells", B. Timurkutluk, C. Timurkutluk, M. D. Mat
- #88. "Life cycle assessment of agricultural residues utilization for biogas deployment", S. Alsamaq
- #102. "Experimental study of a multilayer active magnetic regenerator refrigerator-demonstrator", Y. Chiba, O. Sari, A. Smaïli, C. Mahmed, P. Nikkola
- #110. "Geochemical characterization and geothermal evolution of radioactive silurian and frasnian source rock of the Northern Part of the Berkine Basin Algerian Plate Form", M. Sadaoui, A. Bensekhria, D. Messari
- #113. "Biohydrogen production from crude glycerol by two stage of dark and photo fermentation", T. Chookaew, S. O-Thong, P. Prasertsan
- #115. "Three-dimensional numerical study of the heat transfer on the planar SOFC fuel cell: Joules Effect", S. Youcef, B. M. Hocine, D. Haddad
- #122. "Thermal performance evaluation of a salt-gradient solar pond", S. E. Mirazimzadeh, S. Derakhshan
- #126. "A transient allothermal downdraft biomass gasifier modeling for producing rich hydrogen syngas", V. Freysz, A. Belghit
- #128. "Modeling of modulated single-pool tidal system for electricity generation", E. Farahi, M. Sameti
- #129. "Reliability assessment of smart distribution system and analysis of automatic line switches", N. Sisworahardjo, S. Manandhar
- #131. "Selective coating on solar collectors using black chromium sulfate acid on substrates", T. I. Ohm, W. T. Yeo, J. M. Choi, C. G. Lee, W. S. Choi, K. H. Lee
- #153. "Evaluation of ethanol reforming over PtRu/CeO<sub>2</sub> catalyst to produce hydrogen", C. B. Wang
- #154. "Degradation of high-temperature PEMFC upon start/stop operation", G. Jeong, M. Kim, H. J. Kim, S. J. Yoo, E. Cho
- #159. "Computer simulation of turbulent recirculating flow in double-sided planar sudden expansions", T. Karasu
- #160. "Hydrogen production via hydrolysis of Mg-based hydride", L. Li, Y. Zhu
- #161. "Cooking with minimum energy and protection of environment and health", O. C. Olawole
- #172. "Synthesis and characterization of N-doped TiO<sub>2</sub> photocatalysts with tunable response to solar radiation", A. Petala, D. Tsikritzis, M. Kollia, S. Ladas, S. Kennou, D.I. Kondarides

## Monday - June 9, 2014

## Poster Session 1 (Continued)

13:30 – 18:00

- #177. "The development status of the CO<sub>2</sub> capture process with dual fluidized-beds for post-combustion ccs technology in Korea", Y. C. Park, S. H. Jo, D. H. Bae, B. M. Min, C. K. Ryu, [C. K. Yi](#)
- #178. "Oxidation behavior of ashless coal from a sub-bituminous coal in a direct carbon fuel cell", [C. G. Lee](#)
- #179. "Simulation of the operation of a fleet of materials handling and transport vehicles powered by fuel cells", [I. Dominguez](#), A. Contreras, F. Posso
- #181. "Contribution to environmental performance evaluation by technologies information systems", M. H. Samia, [L. Bahmed](#), M. Chebout
- #183. "Treatment of volatile organic compounds by coupling of absorption and biodegradation", [I. Bechohra](#), A. Couvert, A. Amrane
- #193. "Production of formic acid from cotton gin waste", N. Haleem, [M. Arshad](#), Y. Jamal
- #201. "Modeling of PCM storage integrated solar wall for indoor heating system", [M. Mehroooya](#), M. Sameti
- #209. "Performance study of tubular and planar designs of solid oxide fuel cells by simplified lumped model", [M. E. A. M. Youssef](#)
- #211. "Structural characterization of mechanically milled MgH<sub>2</sub> powders by employing Rietveld method", [H. Gasan](#)
- #216. "Air source heat pump heating and cooling in open, semi-closed and closed greenhouse systems in the Canadian Maritimes", [I. Yildiz](#), J. Y., J. Lowrey
- #214. "Air source heat pump heating and cooling in open, semi-closed and closed greenhouse systems in British Columbia", [I. Yildiz](#), J. Y., J. Lowrey
- #217. "Air source heat pump heating and cooling in open, semi-closed, and closed greenhouse systems in Ontario", [I. Yildiz](#), J. Y., J. Lowrey
- #253. "Predictive control of a solar power plant", N. Djouamaa, [M. L. Saidj](#), S. Kermiche
- #261. "Fuel cell system in cars: Review and power values intention", [B. Bariza](#)
- #328. "Micro-, meso- and macroporous materials for solar cooling applications: a view on water adsorption effect", G. Gorgolis, [D. Karamanis](#)
- #347. "Theoretical investigation on a building-integrated PV/T (BIPVT) system for electrical and thermal energy saving case study: Integrated solar village of Bou Saada", [O. Sotehi](#), A. Chaker, L. B. Mostefa, E. Ramoul
- #528. "Environmental conservation through alternative care: Modeling using fuzzy logic inference of the use of Capparis spinosa in pharmacology", [B. Nadia](#), B. Saddek, B. Chahra
- #652. "Characterization and development of a prototype of a CPV system in the region of Ghardaia", [R. Khelifi](#)
- #606. "Performance improvement of adsorption cooling system by heat recovery operation", [W. Chekirou](#), N. Boukheit, A. Karaali
- #841. "Modeling the structure based on GaAsNbi/GaAs for solar cell", [A. Aissat](#), R. Bestama, Djilia, S. Zellazela, J. P. Vilcot
- #880. "Thermal analysis of satellite battery pack sub assembly into the honeycomb panel", [A. Boudjemai](#), R. Hocine, M. N. Sweeting
- #898. "Investigation of performance assessment of an internal combustion engine in a biogas production power plant", D. Hasdal, [S. O. Akansu](#), N. Kahraman
- #930. "An alternative path for the preparation of triacetylcellulose from unrefined biomass", H. K. Lim, H. Y. Song, D. R. Kim, J. H. Ko, K. I. Lee, J. S. Hwang, [I.T. Hwang](#)
- #956. "Study of optimization of the prospecting site", [A. Addou](#)
- #1060. "Shape effects of alumina nanofluid on flat - plate solar collector efficiency", [A. T. Eshghi](#), R. Ghasempour, F. Razi, F. Pourfayaz
- #1111. "Application of fuzzy fast charging with constant current method", S. R. Huang, [Y. H. Ma](#), S. S. Lin, C. Y. Liu
- #1245. "Self tuning and adaptive PID-fuzzy logic control for three-phase photovoltaic", [M. Louzazni](#), E. Aroudam
- #1453. "Chemical activation of a sewage sludge for elimination of cationic dye (Rhodamine- B) form aqueous solution", [M. Zamouche](#), S. Arris, M. B. Lehocine

## Tuesday - June 10, 2014

## Parallel Session 3

	ROOM - OPAL A	ROOM - OPAL B	ROOM – KEHRIBAR A	ROOM – KEHRIBAR B	ROOM – TOPAZ A	ROOM – TOPAZ B
	<b>Panel Discussion Session</b> Moderator: S.A. Sherif	<b>Clean Coal Technology 2</b> Session Chair: L. Guo	<b>Hydrogen Energy 3</b> Session Chair: I. P. Jain	<b>Green Buildings 1</b> Session Chair: K. Kendall	<b>Solar Energy 1</b> Session Chair: D. K. Baker	<b>Energy Storage 2</b> Session Chair: M. Assadi
09:00 - 10:40	<p><b>HVAC and Energy Education in North American Universities</b></p> <p>S.A. Sherif "Impact of green certifications on energy education in North American universities"</p> <p>I. Dincer "Teaching exergy"</p> <p>T. N. Veziroglu "Sustainability education "</p> <p>B. Kilkis "A comparison between North American and European universities about HVACR education based on the second law"</p> <p>I. Yildiz "Biosystems HVAC and bioenergy education in North America"</p>	<p><b>Special Talk: #ST5.</b> "The progress in theoretical and experimental investigation of boiling coal in supercritical water technology", <u>L. Guo</u></p> <p>#414. "Assessing potential occurrence of slag in combustion of Thai coal by evaluation of ash melting temperature", <u>P. Pintana</u>, N. Tippayawong, D. B. Ingham, M. Pourkashanian, L. Ma, J. Jones, A. Williams</p> <p>#952. "Influence of oxygen concentration and equivalence ratio on MSW oxygen-enriched gasification syngas compositions", H. Yuan, <u>T. Lu</u>, D. Zhao, Y. Wang, N. Kobayashi</p> <p>#986. "Investigation on flue gas CO<sub>2</sub> sequestration by Turkish coal fly ashes", <u>Y. I. Tosun</u></p>	<p>#429. "Hydrogen production during glucose fermentation by Escherichia Coli: Effects of oxidative and reductive routes on the strain lacked of hydrogen oxidizing hydrogenases 1 and 2", <u>A. Poladyan</u>, V. Abrahamyan, A. Vassilian, A. Trchounian</p> <p>#979. "Alumina supported catalyst for hydrogen production from ammonia borane in liquid phase", T. Simsek, <u>D. O. Ozgur</u>, G. Özkan, G. Özkan</p> <p>#192. "Hydrogen production by partial oxidation of methane over Co based, Ni and Ru monolithic catalysts", <u>H. E. Figen</u>, S. Z. Baykara</p> <p>#423. "Determination of steam methane reforming in plasmatron with two different methods", B. Ibrahimoglu, T. Y. Katircioglu, A. Dindar, <u>C. K. Dindar</u></p> <p>#913. "Autonomous hydrogen production system", <u>A. Dukic</u></p>	<p>#889. "Energy and exergy analyses of a multigeneration system for a net-zero energy house", <u>A. Hassoun</u>, I. Dincer</p> <p>#782. "A building energy performance model and advisor system", H. Palizban, <u>M. Tabatabaian</u></p> <p>#1178. "Application of green buildings technologies in the construction regulations of Mexico", <u>D. C. Avila</u></p> <p>#805. "Shading performance on terraced house façade designs in Malaysia", <u>A. S. Hassan</u>, Y. Arab, M. S. O. Bakhlah</p> <p>#1100. "Employing second matter from agricultural sector in architecture: a comparison between the Italian and Romania situation", <u>D. Francese</u>, A. M. Dabija, O. H. Teleche, N. Mastrangelo</p>	<p>#232. "Modeling and simulations of a hybrid solar-geothermal power plant", <u>D. K. Baker</u>, C. C. Özalevli, S. K. Somek</p> <p>#376. "Feasibility of solar-assisted hybrid desiccant cooling at Mediterranean climate", <u>A. Karshenass</u>, D. Baker, C. Yamali, R. Singh</p> <p>#360. "Solar energy fed MGT arrangements", <u>G. Cerri</u>, G. Cerri, L. Chennaoui, A. Giovannelli, I. Bernardini</p> <p>#1184. "Statistical analysis of short term solar radiation data over Aligarh (India)", <u>B. Jamil</u>, N. Akhtar</p> <p>#1088. "Clear sky characterisation and the estimation of global solar irradiance at the Earth's surface from satellite images", <u>N. E. Erusiafe</u>, M. A. C. Chendo</p>	<p>#1410. "Multi-phase ultra-low grade thermal energy storage for the organic rankine cycle", M. Soda, <u>A. Beyene</u></p> <p>#580. "Hydrogen and natural gas storage in adsorbent materials for automotive applications", <u>M. Beckner</u>, A. Dailly</p> <p>#1011. "Hydrogen storage on microporous activated carbons: Effect of porosity and vanadium doping", <u>M. Belhachemi</u>, M. M. de Castro, A. Sepulveda-Escribano, F. Rodriguez-Reinoso, F. Addoun</p> <p>#570. "Effect of K<sub>2</sub>TiF<sub>6</sub> additive on the hydrogen storage properties of MgH<sub>2</sub>-LiAlH<sub>4</sub> destabilized system", M. Ismail, N. S. Mustafa, <u>N. H. Idris</u></p> <p>#304. "Hydrogen storage over metal-doped activated carbons", <u>I. Rossetti</u>, G. Ramis, A. Gallo, A. Di Michele</p>
10:40-11:00 Coffee Break						

## Tuesday - June 10, 2014

## Parallel Session 4

	ROOM - OPAL A	ROOM - OPAL B	ROOM – KEHRIBAR A	ROOM – KEHRIBAR B	ROOM – TOPAZ A	ROOM – TOPAZ B
	Green Buildings 2 Session Chair: S.A. Sherif	Solar Energy 2 Session Chair: Y.H. Hu	Hydrogen Energy 4 Session Chair: I. Dincer	Biomass and Biofuels 2 Session Chair: D. Das	Thermal Sciences 1 Session Chair: M. Anik	Waste Management 1 Session Chair: M. H. Chang
11:00 – 13:00	<p><b>Special Talk:</b> #ST6. "Optimizing energy systems performance in the built environment", <u>S.A. Sherif</u></p> <p>#1142. "Feasibility of energy efficient buildings in Kaliland apartments, "Gazimagusa, North Cyprus"", <u>A. Tahouri</u></p> <p>#1169. "Comparison of energy reduction potential of an adobe house under different climatic conditions in India", <u>B. Jamil</u>, M. J. Ahmad</p> <p>#1146. "Energy management analyses of a solar house in a cold and dry climate of Tabriz City", <u>A. Azami</u>, N. Aghajani, U. Atikol</p> <p>#1256. "Estimation of greenhouse and non-greenhouse gases emissions from combustion facilities in the Jubail industrial city, Saudi Arabia", <u>A. Aksakal</u>, H. Al-Abbas</p>	<p><b>Special Talk:</b> #ST7. "3D graphene for dye-sensitized solar cells", <u>Y. H. Hu</u></p> <p>#1602. "Performance comparison of the sodium and magnesium chloride saturated solar ponds", <u>I. Bozkurt</u>, S. Deniz, M. Karakilicik, I. Dincer</p> <p>#6. "Maximization and optimization of the total solar radiation reaching the solar collector surfaces", <u>K. Gairaa</u>, A. Khellaf, F. Chellali, S. Benkacali, Y. Bakelli, S. Bezari</p> <p>#1500. "Hybrid power generation system of solar energy and fuel cells", Y. Lu, <u>B. Zhu</u>, J. Wang, Y. Zhanga, J. Lid</p> <p>#1622. "Transient thermal performance assesment of a hybrid solar-fuel cell system in Toronto, Canada", <u>P. Ahmadi</u>, I. Dincer, M. A. Rosen</p>	<p>#308. "Role of sulfur to acquire hydrogen from the Black Sea", S. G. Durak, <u>S. Kapkin</u></p> <p>#295. "Three-dimensional modeling and simulation of hydrogen desorption in metal hydride hydrogen storage vessels", H. Yoo, <u>S. Kyoung</u>, H. Ju</p> <p>#105. "Switchable magnetic properties of hydrogenated metal alloys", <u>L. Ratishvili</u>, N. Namoradze</p> <p>#1116. "System design and optimal management strategy for photovoltaic energy and hydrogen production", <u>H. Tebibel</u>, S. Labed</p> <p>#672. "Hydrogen adsorption of carbon nanotubes grown on different catalysts", <u>E. D. Tekkaya</u>, N. Karatepe</p> <p>#367. "Increasing onboard hydrogen content in fuels for combustion engines", <u>Z. Wang</u>, G. F. Naterer, K. S Gabriel</p>	<p>#1129. "A comparative review of microalgae harvesting and extracting technologies for biofuel production", F. Khademi, <u>I. Yildiz</u>, A. C. Yildiz, S. Abachi</p> <p>#49. "Biogas to syngas conversion without carbonaceous deposits via the dry reforming reaction using transition metal catalysts", <u>P. Djinić</u>, I. G. O. Črnivec, A. Pintar</p> <p>#303. "Kinetic modeling of plasma assisted dry reforming of biogas", <u>P. Thanompongchart</u>, N. Tippayawong, P. Worathanakul, P. Sadooghi, R. Rauch</p> <p>#937. "Towards improving the catalytic activity and stability of platinum-based anodes in direct formic acid fuel cells", <u>A. M. Mohammad</u>, G. A. El-Nagar, I. M. Al-Akraa, M. S. El-Deab, B. E. El-Anadoui</p> <p>#1122. "Storage effect on the efficiency of biogas production from the poultry manure", <u>K. Witaszek</u>, K. Pilarski, J. Dach, P. Boniecki, P. C. R. Carmona, W. Czekala, D. Janczak, A. Smurzyńska</p> <p>#12. "Utilizing forest biomass for energy in the Pakistan: Lessons learned", <u>S. Z. Ilyas</u></p>	<p>#980. "Effect of temperature and initial concentration on synthesis of ammonia borane", <u>D.O. Ozgur</u>, G. Ozkan</p> <p>#469. "Microalgae based renewable diesel production", <u>F. Cetin</u>, F. M. Tunc, B. Yuzuak, I. D. Gunbas</p> <p>#405. "Utilization of iron oxides in chemical looping combustion processes", N. Dilmac, <u>O. F. Dilmac</u>, O. N. Sara, S. Yoruk</p> <p>#1606. "Effect on wall shear rates of Taylor vortex instabilities induced by progressive variation of the inner cylinder", E. Berrich, <u>F. Aloui</u>, J. Legrand</p> <p>#1382. "Production of anionic surfactant (soap) from moringa oleifera lam seed oil", <u>A. A. Warra</u></p> <p>#1378. "Numerical assessment of the slagging potential of Nigerian coal for possible co-firing", <u>M. U. Degereji</u></p>	<p>#25. "Recent development of biohydrogen production processes from the organic wastes", <u>D. Das</u></p> <p>#1046. "Methane fermentation as a way of managing waste from the grain coffee production", <u>P. C. R. Carmona</u>, J. Dach, R. Mazur, K. Witaszek, A. Lewicki, D. Janczak, M. Ciešlik</p> <p>#52. "Drying, pyrolysis and gasification (all in one microwave induced process) of municipal solid wastes for syngas production", D. Beneroso, J. M. Bermúdez, A. Arenillas, <u>J. A. Menéndez</u></p> <p>#842. "Municipal solid waste gasification with solid oxide fuel cells and stirling engine", <u>M. Rokni</u></p> <p>#634. "Co-pyrolysis of rice husk and plastic wastes: liquid optimization through response surface methodology", <u>M. N. Miranda</u>, F. Pinto, R. André, P. Costa, N. Lapa</p> <p>#100. "Biohydrogen production from model microalgae <i>Chlamydomonas reinhardtii</i>: A simulation of environmental conditions for outdoor experiments", <u>S. S. Once</u>, A. Kose, C. Faraloni, E. Imamoglu, M. Elibol, G. Torzillo, F. V. Sukan</p>

13:00-14:00

Lunch

## Tuesday - June 10, 2014

## Parallel Session 5

	ROOM - OPAL A	ROOM - OPAL B	ROOM – KEHRIBAR A	ROOM – KEHRIBAR B	ROOM – TOPAZ A	ROOM – TOPAZ B
	<b>Keynote / Special Talks</b> Session Chair: B. Zhu	<b>Hydrogen Energy 5</b> Session Chair: A. Aissat	<b>Clean Energy</b> Session Chair: I. Hassan	<b>Waste Management 2</b> Session Chair: S. Mitra	<b>Thermal Sciences 2</b> Session Chair: J. Park	
14:00 - 15:40	<p><b>Keynote Talk</b> B. Zhu "Next generation fuel cell: challenges and opportunities"</p> <p><b>Special Talk: #ST8.</b> "The METHASYN liquid hydrogen revolution", <u>G. R. Grob</u></p> <p><b>Special Talk: #ST9.</b> "Basic facts and equations to be considered, to reevaluate the risk and the feasibility of actual nuclear energy production, in the world, in the region, and in Turkey", <u>I. Yarman</u></p>	<p>#1019. "A low-operating temperature and high efficient partial oxidation mode micro methanol reformer", H. S. Wang, S. Y. Fu, Y. J. Huang, <u>F. G. Tseng</u></p> <p>#645. "Thermal decomposition of tars on char from oil palm shells in gasification systems", M. Gomez, A. Gómez, <u>S. Rincón</u></p> <p>#1268. "Production of synthesis gases from catalytic steam reforming of ethanol and propane processes", <u>M. Agbaba</u>, M. Levent, Y. Sahin</p> <p>#310. "Producibility of bio-hydrogen from organic fraction of municipal solid waste using dry fermentation and tri-reforming techniques in Turkey", <u>O. Kaplan</u>, K. S. Yigit, R. G. Akay, A. N. Akin</p> <p>#298. "Effect of loading bimetallic mixture of Ni and Pd on Hydrogen storage capacity of MCM-41", <u>E. D. Tekkaya</u>, Y. Yurum</p>	<p>#844. "General overview on nuclear energy and technology with respect to clean energy renewable aspects", <u>S. Sahin</u></p> <p>#1312. "Clean energy in Jordan: generation, management, and optimization using operations research principles", <u>S. M. Fayyad</u></p> <p># 1608. "Comparative analyses of diesel and ammonia-based locomotive systems for clean rail transportation in Canada", <u>J. Hogerwaard</u>, I. Dincer, C. Zamfirescu</p> <p>#509. "Studying and analyzing physical and environmental problems of a village with the purpose of the management of clean energy sources and sustainable development approach", S. Sadeghi, <u>B. C. Yani</u>, M. Bahari, T. Ghaznavi</p> <p>#1609. "Clean development mechanism, a bridge to mitigate the greenhouse gasses: Is it broke in Iran?", <u>R. Alizadeh</u>, R. Maknoon, M. Majidpour</p>	<p>#1084. "Complex processing of manganese bearing waste and low-grade ores by autoclaving method", <u>A. Chirakadze</u>, I. Bazghadze, I. Geleishvili, L. Gurchumelia, T. Geleishvili, V. Gvakharia</p> <p>#1121. "Research on synergy effect in methane fermentation of maize silage and fish waste", <u>A. Lewicki</u> J. Dach, M. Ciešlik, W. Czekala, K. Witaszek, D. Janczak, A. Smurzyńska</p> <p>#629. "Energetic valorisation of rice production wastes by co-gasification", <u>R. André</u>, F. Pinto, M. Miranda, P. Costa</p> <p>#1032. "Mixed culture biotechnology for high titer butanol production from beverage wastewater", <u>B. Sen</u></p> <p>#1130. "Biogas production from maize straw silage with different treatments", M. Zhou, <u>W. Czekala</u>, J. Dach, P. Jacek, K. Malińska, P. Boniecki, A. Lewicki, C. P. C. Rodriguez</p>	<p>#350. "Activated zeolites and heteropolyacids an efficient catalysts for the synthesis without use of organic solvent at room temperature", <u>M. Hammadi</u>, H. Dokari, D. Villemain, N. Benferrah</p> <p>#1173. "Electrocatalytic activity of novel binary modified platinum surfaces with cobalt and nickel oxides nanostructures toward formic acid oxidation", <u>G. A. M. El-Nagar</u>, A. M. Mohammad, M. S. El-Deab, B. E. El-Anadoui</p> <p>#302. "Coke resistant catalysts for methane steam reforming in the presence of higher hydrocarbons", <u>S. D. Angelj</u>, F. G. Piliitsis, A. A. Lemonidou</p> <p>#364. "Flame extinction behavior in buoyancy-minimized counterflow diffusion flame with finite burner diameter", Y. Ho Chung, J. W. Park, <u>J. Park</u>, O. B. Kwon, J. H. Yun, S. I. Keel</p> <p>#722. "Sorption properties of carbon-Kieselgühr prepared mixtures towards organic pollutant in aqueous media", <u>H. Hadjar</u>, B. Hamdi</p>	IJER Board Meeting
	<b>15:40-16:00</b> <b>Coffee Break</b>					



## Tuesday - June 10, 2014

## Parallel Session 6

	ROOM - OPAL A	ROOM - OPAL B	ROOM – KEHRIBAR A	ROOM – KEHRIBAR B	ROOM – TOPAZ A	ROOM – TOPAZ B
	<b>Novel Technologies</b> Session Chair: P.J. Kervalishvili	<b>Hydrogen Energy 6</b> Session Chair: <u>A. Veziroglu</u>	<b>Exergy Analysis 2</b> Session Chair: P. Boniecki	<b>Thermodynamic Analysis 1</b> Session Chair: G. Cerri	<b>Green Vehicles</b> Session Chair: J. H. Choi	
16:00 – 18:00	<p><b>Special Talk:</b> #ST10. "Radiation sensors and sensory nanosystems: Novel achievements", <u>P. J. Kervalishvili</u></p> <p>#409. "Prospects of a settlement in Southern Georgia entirely based of green energy", <u>A. G. Tvalchrelidze</u></p> <p>#324. "Combined processing of waste organic polymers and manganese bearing waste/low-grade ores into fuels and low-carbon manganese alloys", <u>A. Chirakadze</u>, Z. Buachidze, A. Gigineishvili, L. Gurchumelia, G. Kervalishvili, M. Wireman, T. Chichua, V. Gvakharia, I. Basghadze, I. Geleishvili</p> <p>#322. "Arsenic pollution of soils and morbidity prevalence in racha-lower svaneti district of Georgia", <u>V. Gvakharia</u>, A. Chirakadze, N. Chakvetadze, M. Chokheli, W. Toscano, L. Gvertseli, N. Bagrationi, M. Stamateli</p> <p>#321. "Monte-carlo modelling and experimental study of radon and progeny radiation detectors for open environment", <u>S. Kottou</u>, D. Nikolopoulos, E. Petraki, D. Bhattacharyya, P. B. Kirby, T. M. Berberashvili, L. A. Chakhvashvili, P. J. Kervalishvili, P. H. Yannakopoulos</p>	<p>#886. "Effect of microporous layer composed of carbon nanotube and acetylene black on polymer electrolyte membrane fuel cell performance", S. Y. Lin, <u>M. H. Chang</u></p> <p>#155. "Hydrogen energy in thin films", <u>I. P. Jain</u></p> <p>#85. "Synthesis of La-Ni hydrogen storage alloy by electro-deoxidation method", <u>M. Anik</u></p> <p>#984. "Characterization of NiO-based oxygen transfer materials for sorption enhanced chemical looping steam methane reforming", L. Silvester, G. Boskovic, E. Heracleous, A. Antzara, A. A. Lemonidou, <u>D. B. Bukur</u></p> <p>#235. "Electrocatalytic membrane-assisted process for hydrogen production from H<sub>2</sub>S in Black Sea: Preliminary results", D. Ipsakis, T. Kraia, G.E. Marmellos, M. Ouzounidou, S. Voutetakis, R. Dittmeyer, A. Dubbe, K. Haas-Santo, M. Konsolakis, H. E. Figen, N. O. Guldal, <u>S. Z. Baykara</u></p> <p>#118. "Hydrogen production in an actinide fusion transmuted fueled PWR-UO<sub>2</sub> spent fuel", G. Bakir, B. Cicek, <u>G. Genc</u>, H. Yapici</p>	<p>#444. "Energy and exergy analysis of the effect of inlet air temperature on thin layer drying trout", <u>M. Erdem</u>, Y. Varol, F. Kamisli, H. Gul</p> <p>#847. "Multi-objective exergoeconomic optimization of a 300kw microturbine using GMDH type neural network and evolutionary algorithm", <u>M. Amiralipour</u>, S. Khanmohammadi, S. Sarmastian</p> <p>#807. "Energy and exergy analyses of a residential cold thermal energy storage system", <u>C. Acar</u>, I. Dincer</p> <p>#1385. "Compared exergy analysis of sequential enzymatic hydrolysis - fermentation and simultaneous saccharification - fermentation of sugarcane bagasse", <u>P. A. S. Ortiz</u>, S. De Oliveira Júnior</p> <p>#958. "Drawing the solar exergy map for renewable application in south-east of Iran", <u>S. Edalati</u>, M. Ameri, M. Iranmanesh</p> <p>#981. "Study and optimization of energy profile of meat industry in Region of Alentejo, Portugal", O. Alves, <u>P. Brito</u>, P. Lopes, P. Reis</p>	<p>#1119. "Optimization of a gas compression refrigerator for drinking water production through air dehumidification", M. Bortolini, M. Gamberi, A. Graziani, <u>F. Pilati</u></p> <p>#638. "Energy conservation potential of using phase change materials as thermal mass material for air source heat pump driven underfloor heating system in a building", <u>M. J. Huang</u>, N. Hewitt, Y. Wang</p> <p>#830. "Thermodynamic modeling and optimization of a novel integrated system to recover energy from a gas pressure reduction station", <u>S. Khanmohammadi</u>, P. Ahmadi, D. Mirzaei</p> <p>#1202. "Experimental and simulation studies of oxy-fuel combustion for carbon capture and sequestration (CCS) from a coal/biomass power plant", N. Jurado, <u>H. G. Darabkhani</u>, E. J. Anthony, J. E. Oakey</p> <p>#66. "Double diffusion effects on entropy generation in convective heat and mass transfer", <u>A. Zeroual</u>, D. Haddad, F. Benzemit</p> <p>#527. "Experiments on a novel component design of a thermoacoustic device", <u>S. H. Tasnim</u></p>	<p>#31. "Carbon dioxide adsorption on coconut shell biochar", N. Z. Rebitanim, <u>W. A. W. A. K. Ghani</u>, M. A. M. Salleh, A. B. Alias</p> <p>#1280. "Cartridge electric vehicle model: A new approach for transition to electrification", <u>E. Kinav</u>, S. Z. Baykara</p> <p>#239. "Dynamic programming technique for optimizing fuel cell hybrid vehicles", <u>D. Fares</u>, R. Chedid, S. Karaki, R. Jabr, F. Panik, H. Gabele, Y. Huang</p> <p>#246. "Effect of car window filming in summer on reduction of fuel consumption, vehicle sourced emissions and contribution to economy all around Europe and European Union", <u>N. Gure</u>, M. Yilmaz, U. Tumerdem</p> <p>#1136. "Ethanol production and fuel substitution in Pakistan promoting sustainable transportation and mitigating climate change", <u>M. A. Tarig</u>, M. Jibrán, S. Zuberi, D. Baker</p> <p>#973. "Prototype of a hybrid (fuel cell and solar cell) electric passenger cart", T. Akfidan, M. Tanrioven, <u>A. Durusu</u></p>	IJER Board Meeting
	<b>19:00</b> <b>Banquet and Award Ceremony</b> <b>(Develi Restaurant)</b>					

## Tuesday - June 10, 2014

## Poster Session 2

09:00 - 14:00

- #24. "Search in maximum power point algorithm applied to the reaction against photovoltaic energy", Y. Ali, Y. Benlalli, A. Nader
- #67. "Optimisation of a Darrieus design for 10 kW power output", A. Zeroual, D. Mohamed
- #86. "Using golden-section search technique for maximum power point tracking in photovoltaic systems", A. Kheldoun, S. Djeriou, A. Kouadri, L. Refoufi
- #41. "Performance indicators of the wastewater-treatment plant of Beni-Messous (Algeria)", S. Khaled/Houli
- #108. "Heat transfer simulation in solid oxide fuel cell: Radiation heat transfer effect", A. Soumia, B. M. Hocine, Z. Bariza, D. Haddad
- #109. "Air quality index and public health: Modelisation using artificial intelligence technique", B. Saddek, A. Fateh, B. Miloud, B. Mustapha, B. Chahra
- #112. "Structural and optical properties of sol-gel thin films for photovoltaic applications", N. Agoudjil
- #136. "Modeling of heat transfer in the PEMFC: Velocity inlet and current density effect", D. Haddad, K. Oulmi, H. Benmoussa, A. Zeroual, S. Youcef
- #142. "Effect of the hill on wind behavior using fuzzy logic modelling", A. Fateh, B. Miloud, Z. Rabah, B. Saddek
- #146. "Study of solar combisystem in a bioclimatic house in Algeria", S. E. Bensalem, A. Hamidat, K. Imessad, S. Bahria
- #152. "Heat release rate prediction of biodiesel/diesel blends combustion in diesel engine applying artificial neural network", L. Tarabet
- #156. "Designing biogas unit for cleaner and optimal energy production", M. Saber, M. Aziza
- #185. "Effects of partial substitution of Cu by Ni and supported catalysts for dry methane reforming", T. Fouzia, A. Rabahi, R. Chebout, D. Halliche, K. Bachari
- #186. "Effect of hydrogen enrichment and equivalence ratio on performance and emissions of gasoline Wankel rotary engine", F. Amrouche, P. A. Erickson
- #194. "Lignin content modification to simplify biomass to fuel conversion process: facts and prospects", M. Arshad, A. Iqbal, Y. Jamal, M. A. Ali
- #199. "Influence of air flow rate on aerobic remediation soil polluted with gasoil", B. Yacine
- #200. "Design and realization of an experimentation platform for testing off-grid hybrid PV-Wind systems under Algerian climate", H. Belmili, S. Bolouma, B. Bendib, F. M. Almi
- #203. "The study of the performance of the solar chimney power plant in the region of M'Sila, Algeria", S. Djimli
- #208. "Study of the contribution of renewable energies in environmental and economic performances: Case of SPPI Hassi Rmel", L. Bahmed, S. Aouadj, H. Lemouchi
- #215. "Combined economic load and gas emission dispatch solution using Gams/Conopt solver", F. Benhamida, I. Ziane, A. Graa, S. Souag, B. Bouchiba
- #226. "Thermodynamic analysis of the vapour compression-double effect absorption cycle using as two stage refrigeration cycle", C. Cimsit
- #227. "Electrochemical preparation process of Mg-based Nanocomposites for solid hydrogen storage", M. Sahli, N. Bellel
- #234. "Anaerobic batch reactors fed with low glucose and sucrose concentrations applied on bio hydrogen production", S. I. Maintinguer, M. F. Rodrigues, R. Pachiega, P. Almeida, M. A. T. Adorno, R. Sequinel, J. E. Oliveira
- #236. "Preparation of effective ternary Co-Ti-B catalysts for NaBH<sub>4</sub> hydrolysis and investigation of kinetic properties", O. K. Ozdemir, A. Hasimoglu
- #240. "Modeling and numerical simulation of solar chimney collector -A case study-", T. Tayebi, M. Djeddar
- #241. "SMR Integration and Increase of CO<sub>2</sub> Production", M. Tagliabue
- #243. "Exergy and cost analysis of sea water source heat pumps for space heating and cooling in non-domestic buildings", M. C. Engul, M. Celik
- #244. "Assesment of wind energy potential in Hatay airport region", B. Tanc
- #245. "Preferential CO oxidation over Ru/Al<sub>2</sub>O<sub>3</sub> coated metal monolith catalyst for small scale fuel processor", K. Y. Koo, H. J. Eom, U. Ho J., W. L. Yoon
- #247. "Farming practices for sequestration of green house gases for sustainable agriculture", P. S. Shehrawat
- #256. "Energy transition: understanding the role of functionality and adaptation in the context of Nigeria", O. O. Osunmuyiwa, F. Biermann, A. Kalfagianni
- #257. "Operational optimization of a high temperature polymer-electrolyte-membrane fuel cell stack to improve its lifetime", T. Kang, M. Kim, J. Kim, Y. J. Shon
- #259. "Development of shut-down process for Direct Methanol Fuel Cell (DMFC)", X. Zhao
- #260. "Maximum power point tracking control design for a wind energy conversion system using direct and indirect adaptive fuzzy control", H. Belmili, S. Boulouma #224. "Morphological analysis of hexagonal boron nitride nano layers", S. Pat
- #263. "Biohydrogen production from steam-pretreated sugarcane bagasse", R. P. Ratti, M. B. A. Varesche
- #265. "Effect of precursor concentration on the properties of Na-H layered materials", N. Belmokhtar, R. Nedjar
- #275. "Study of wiped gases dehydration by adsorption on a molecular sieve zeolite A", S. Amokrane, H. Marref, S. Zaim, D. Nibou
- #278. "Comparison of solar radiation models using different statistical methods in Nigde, Turkey", M. Gokcek, A. Gungor
- #283. "Heat transfer performance of super critical carbon dioxide in micro channel heat exchanger", C. Y. Yang, K. J. Liao
- #284. "Mainstreaming climate change resilience through improved cooperation between water, agriculture and energy management for food security", U. C. Sharma
- #285. "Microstructural and electrochemical properties of LiCoO<sub>2</sub> thin film prepared by Aluminum Induced Crystallization (AIC) method", J. Noh
- #287. "A study on the coating method of CNT by the electroless plating", S. Huh

## Tuesday - June 10, 2014

## Poster Session 2 (Continued)

09:00 - 14:00

- #292. "Extraction of amoxicillin antibiotic from wastewater using an anionic surfactant", A. Boukhalkhal, O. Benkortbi, M. Hamadache, S. Hanini, F. Bentahar
- #288. "An experimental study on heat transfer by graphene coating on copper substrate", H. Chung
- #290. "The alternation microstructure properties of Al-Si and Al-Si/C nanoparticles synthesized by arc discharge method", W. Park
- #291. "Design of BOP gantry crane on drillship by Ansys", S. Huh, Y. Jung
- #294. "Temperature dependence of CO poisoning in high temperature proton exchange membrane fuel cells with phosphoric acid doped polybenzimidazole membranes", K. Oh, B. Choi, H. Ju, S. Kyoung
- #301. "Technology-screening for net-zero energy buildings for North Cyprus", D. B. T. Kenfack, U. Atikol, A. O. Azeez, H. Shiri
- #305. "Industrial safety and environment improvement of cement plant using hazop analysis and preventive maintenance", M. Chafai, L. Refoufi
- #306. "Quantitative structure-activity relationships models for the prediction of acute mammalian toxicity of herbicides by using Multi-Layer Perceptron-Artificial Neural Networks", M. Hamadache, L. Khauane, O. Benkortbi, C. Si Moussa, S. Hanini, A. Amrane
- #307. "Surface properties of nanostructured lipon material", S. Pat
- #314. "The continuous operational results of a bench-scale hot gas desulfurization process in the pre-combustion ccs technology", Y. C. Park, D. H. Kyung, J. Y. Kim, J. H. Moon, H. J. Ryu, J. I. Baek
- #330. "Bioethanol production from molasses by pervaporation membrane bioreactor", F. U. Nigiz, N. D. Hilmioglu
- #339. "Biological hydrogen production from microcrystalline cellulose using a pulp and paper industry anaerobic sludge as inoculum", C. A. B. Silva
- #340. "Emission impacts of road transport electrification in urban areas", B. Yagcitekcin, Y. Karagoz, L. Yuksek, T. Sandalci, S. Sevilgen, M. Uzunoglu
- #343. "An approach to the renewable energy sources of the Simak Province", N. Ak
- #344. "Towards massive utilization of wind and solar energy resources", D. Karamanis
- #353. "CHP multi-fuel cell system energy management considering hydrogen production for smart grid operation", M. El-Sharkh
- #365. "Evaluation of microwave pretreatment on coal sulfur forms by AP-TPR/MS method", S. Mesroghli
- #387. "Study of the microclimate of a greenhouse equipped with an energy storage in a rock-bed (case of study: south of Algeria)", S. Bezari, S. M. A. Bekkouche, A. Benchatti, F. Challeli, K. Guiraa
- #413. "Synthesis and study of physicochemical properties of a new surfactant", H. Daoudi
- #445. "Panel photovoltaic modeling using an RBFN artificial neural network", H. A. Azzeddine, D. Chaouch, A. Zougaret
- #459. "Environmental impact of desalination plant of Bou Smail (Algeria)", F. Ammour, S. Louannes, S. Houli, A. Kettab
- #471. "Synthesis of mixed oxide TiO<sub>2</sub>-WO<sub>3</sub> nanotubes arrays and its photoelectrochemical performance", N. Ismail
- #474. "Convergence of electricity consumption - trend or accident", M. Szajt, M. Zawada, M. S. Patyk, A. Pabian
- #482. "FPGA-based three phase inverter control system for photovoltaic power generation", S. Souag, F. Benhamida, A. Graa, Y. Ramdani
- #493. "Numerical modelling of two phase flow inside the electrostatic precipitator of a coal fired power plant", A. S. M. Savem, M. M. K. Khan, M. G. Rasul, M. T. O. Amanullah
- #649. "The energy cost and emission reductions by using wall insulation in buildings with real parameters", A. Dasdemir, G. A. Kılıç, A. Kecebas
- #670. "Numerical study of heat transfer in solar receivers for CSP", S. Lecheheb, M. Mammar, A. Bouhallassa, A. Hamidat
- #709. "Biohydrogen production using psychrophilic bacteria", Z. D. A. Cuevas, L. G. Ordoñez, J. T. O. Salas, A. De León-Rodríguez
- #765. "Application of life cycle assessment to the LCA case studies new nitrogen fertiliser production", T. Serradi, A. Makhlof, A. A. Monia
- #772. "Electrochemical glucose biosensor based on enzyme entrapment with the aid of Chitosan", H. Zare, G. Najafpour, M. Jahanshahi, M. Rahimnejad
- #987. "Pilot applications proposal for sustainable woody biomass supply chains", C. Ketikidis, M. Christidou, P. Grammelis, R. Oberwimmer, M. Kolck
- #1105. "Optimization of acetic acid recovery by liquid-to-liquid extraction (LLE) from pre-pulping extracts", S. J. Kim, H. S. Kwon, G. H. Kim, B. H. Um
- #1180. "Electrochemical performance of vertically aligned single-walled carbon nanotube in ionic liquid", M. A. Azam
- #1364. "Sustainable Resilience of Hydrogen Energy System", N. H. Afgan, A. Veziroglu

## Tuesday - June 10, 2014

## Poster Session 3

13:30-18:00

- #72. "Sustainable management of mountainous forest area in the center of Aures in eastern Algeria", R. Sihem
- #151. "Performance and exhaust emissions of DI diesel engine operating with Eucalyptus biodiesel/natural gas under dual fuel mode", L. Tarabet
- #218. "Air source heat pump heating and cooling in open, semi-closed, and closed greenhouse systems in the Canadian Prairies", L. Yildiz, J. Y., J. Lowrey
- #219. "Air source heat pump heating and cooling in open, semi-closed, and closed greenhouse systems in Quebec and Labrador", L. Yildiz, J. Y., J. Lowrey
- #238. "Preparation of effective binary Pt-Ni alloy electrocatalysts for PEMFC by electrodeposition", O. K. Ozdemir, A. Hasimoglu, M. Gocmen, A. Ekerim
- #266. "Chloropyrifos residues in food plant in the region of Setif - Algeria- and its impact on public health: Modeling using artificial neural networks", B. Chahra, B. Nadia, B. Saddek
- #279. "Novel algorithm for tracking the global maximum power peak under partially shaded conditions", M. S. Saoud, H.A. Abbassi, S. Kermiche, M. Ouada
- #313. "Bioadditive synthesis from glycerol by esterification using catalytic chitosan membrane", D. Unlu, N. D. Hilmioglu
- #346. "Comparative study between the correlated explicit parameters PV module characteristics model and neural network model", I. H. Mahamed, A. H. Arab, S. Berrah, Y. Bakelli, S. H.Oudjana
- #348. "3D simulation of benard-marangoni instabilities", B. Chahrazed
- #369. "Application of low cost materials in the designing of small scale biomass gasifiers", R. Khatry, D. Mishra
- #371. "Experimental study of a usual brick with square holes filled with PCM to improve thermal inertia of buildings", N. Hichem
- #372. "Impact of building shape on energy consumption for building in south of Algeria", N. N. Saifi
- #373. "The quality management and certification in the Algerian company", M. Djemai, H. A. Elias
- #370. "Hybrid energy storage system with lithium-ion battery and super-capacitors for electric vehicles", H. S. Khaldi, A. C. Ammari
- #378. "An integrated experimental characterization approach of the solar interaction properties of building materials", S. Krimpalis, D. Karamanis
- #396. "Production of hydrogen gas by electrolysis using activated Cu/NiCuZn electrocatalysts", R. Solmaz, G. Kardas
- #386. "Biodegradation of phenol by a strain isolated from wastewater", S. Hemidouche, A. Salah, O. Allalou, Z. Sadaoui
- #394. "Preparation and characterization of nanoencapsulated n-nonadecane for convective heat transfer systems", S. Barlak, A. Karaipekli, O. N. Sara, S. Yapici
- #397. "Design and performance evolution of indirect type natural convection solar dryer", A. Chaker, B. Abdelouahab
- #400. "Production of lactic acid from dairy wastewater in batch culture of Lactobacillus bulgaricus", H. G. Taleghani, G. Najafpour, A. A. Ghoreyshi
- #401. "The enhancement of biogas production by leachate recirculation in landfills. A modelling study", B. Adouane, N. Rahmouni, A. Benkorichi
- #402. "A hydrogen sulfide splitting photo-reactor for large-scale hydrogen production: radiative heat transfer and catalyst performance study", E. Baniasadi
- #412. "Experimental study of thermal behavior of an open atmospheric cooling tower", A.Haddouche, S. Boulahrouz, A. Benretem
- #417. "Magnetic fenton catalysts for the removal of water pollutants", M. S. Medjram
- #426. "Simulation of a ceiling board cooling using storage material", M. Sameji, A. Kasaeian, M. Najafpour
- #427. "Modeling and investigation of green roofs on the performance of building cooling power", M. Sameti
- #433. "Thermodynamic behavior and realization of the phases diagram of the ternary system of n-alkanes: n-docosane + n-tetracosane + n-hexacosane", N. Benadij-Hamidi, S. Belaadi
- #436. "Evaluation of the adequacy of the wind speed extrapolation laws for two different roughness meteorological sites", D. Khafa, A. Benretem, L. Herous, I. Meghlaoui
- #449. "Process evaluation of the seawater desalination plant of Skikda", M. Rouainia
- #450. "Effect of non-condensable gases on the adsorption properties of adsorbent porous media in thermal powered adsorption cooling systems", N. Bonyadi, O. A. Bayman
- #452. "Numerical simulation of concrete heat exchangers for heat pump applications", B. B. Kanbur, S. O. Atayilmaz, H. Demir, A. Koca, Z. Gemici
- #454. "Extraction and determination of chromium from waste incineration of solid waste (mud,shavings) the tanning of rouiba by the protocol of tessier", A. Karim
- #458. "Fossil fuel energy dependence in Nigeria- A damaging effect to the nation", L. E. N Ekpeni
- #462. "Insulation and heating water radiator effect on air heating solar collector operation", A. Aboltins, J. Palabinskis
- #463. "Incorporation of WO<sub>3</sub> into self-organized TiO<sub>2</sub> nano array deposited on FTO and their photoelectrochemical water splitting performance", N. Ismail
- #465. "Characterization of three photovoltaic silicon ingots without and with electromagnetic stirring at 150 A and 250 A", N. Salhi
- #477. "Materials construction form the agricultur sector", N. Mastrangelo
- #479. "The performing material used for total knee replacement", M. Fatiha
- #484. "Performance of induction motor under the effect of three phase voltage unbalance with loading consideration", F. Z. Dekhandji, L. Refoufi
- #486. "Electrodeposition of iron oxide on titanium dioxide nanotube arrays induces the photo conversion efficiency", N. Ismail, F. Foad, M. Antonious
- #491. "PV-wind installation - powered rural zone family house in Bechar (Algeria)", B. Bouchiba, M. Dahbi, F. Benhamida, A. Hazzab
- #496. "Ni-Mn/SiO<sub>2</sub> catalysts in methane steam reforming reaction- Effect of Nickel Content for hydrogen production", A. Belhadi, A. Boudjema, M. Trari, O. Cherifi
- #497. "Air conditioning in Serbian low-rise houses", M. Bojic, D. Adamovic, M. Miletic, L. Bojic
- #510. "Predictions of the hydrodynamic performance of horizontal axis marine current turbines using a panel method program", M. A. Mohammed

## Tuesday - June 10, 2014

## Poster Session 3 (Continued)

13:30 – 18:00

- #514. "Studying the elements of the central yard in Iranian architectural climate", M. Alamdari
- #515. "Innovative process of essential oil extraction: Steam distillation assisted by microwave", N. Sahraoui, R. Bennai, C. Saada, C. Boutekedjiret
- #516. "Sensitivity of GHI forecasts to physical parameterizations in WRF-ARW", S. Incecik, S. Tilev Tanriover, A. Kahraman, E. Caliskan, S. Topcu, C. Kahya
- #539. "Waste to energy (W2E) as the modern concept of waste management", M. Starostka-Patyk, M. Zawada, M. Szajt, A. Pabian
- #543. "CITINES-Design of a decision support tool for industrial complexes and cities", S. Nalbant, E. Y. Cicek, F. Uzman, F. Cetin, C. Savasan, L. Fournie, S. Mouret
- #547. "Effects of heat waves on human mortality in setif area (North-East of Algeria)", M. Bounechada, S. Bouharati, N. Achouri, C. Baiben, L. Tedjar
- #554. "Highly efficient CdS/TiO<sub>2</sub> hetero nano interfaces for energy and environmental applications", D. M. Allumolu
- #569. "Thermal comfort at radiant panel systems", D. Cvetkovic
- #573. "Comparing different passenger cars using Life Cycle Cost Analysis in Iran", F. Mousavi
- #576. "Characterization and simulation of silicon oxynitride films deposited by PECVD-RCE for solar applications", L. Zighed, A. Mahdjoub
- #578. "Numerical investigation of solar absorption refrigeration using concentrator as heat source", D. D. Lynda
- #582. "Numerical analysis of impeller-tongue interaction for a centrifugal pump", M. G. Cetin, A. Koca, A. Pinarbasi
- #592. "Chromium as alloying element in ebonex supported platinum catalysts for electrochemical water splitting", E. S. Petkucheve, E. Lefterova, A. Stoyanova, E. Slavcheva
- #597. "Effect of temperature on sorption isotherms of Vulgar Marrube leaves (Marrubium vulgare)", M. Benamara, B. Touati, B. Draoui, A. Saad, A. Abdenbi, L. Boubekeur
- #605. "Adsorption of textile dyes on mixture olive stones and date pits from colored wastewater", K. Louhab, H. Babaci
- #607. "Degradation of phenol using bacteria locally isolated", F. Kaidi, N. Jin, F. Bentahar, M.W. Naceur
- #612. "Study of the aqueous degradation of antibiotics by heterogeneous photocatalysis", A. Ounnar, L. Favier, A. Bouzaza, F. Bentahar, F. Kaidi, R. Djouder
- #616. "Forecasting the energy consumption using neural network approach", M. Bouabaz, B. Belghoull, N. Bouleknafet, M. Mordjaoui
- #619. "Design methodology for a solar assisted desalination unit using humidification-dehumidification technique", A. M. Ramadan
- #623. "Energy efficiency in a building complex through seasonal storage of thermal energy in a confined aquifer", H. Ghaebi
- #628. "Optimization of the surfactants method determination in wastewater and treatment by membrane process", A. C. Ahmia, F. Danane, M. Idouhar, O. Arous
- #643. "A new fractional order MPPT algorithm for maximum power point tracking of photovoltaic panels", A. Necaibia, S. Ladaci, S. A. Chikhi
- #647. "A study on thermo-physical properties of building materials: concrete of vegetable fiber", D. Belkharouchouche, A. Chaker
- #650. "Dynamic adsorption studies of oxytetracylin on pretreated loofah cylindrica fibers", F. Mohellebi, F. K. Kies, N. Boudina
- #654. "Equilibrium and kinetic studies of adsorption of Cd(II), Zn(II), and Cu(II) from aqueous solution into cereal by-products", S. Arris, F. Belaib, M. B. Lehocine, H-A. Meniai
- #655. "Computational study of the effects of heat generating finned annular duct on the conjugate heat transfer", S. Touahri, T. Boufendi
- #667. "Direct utilization of lignite coal in a Co-CeO<sub>2</sub>/YSZ/Ag solid oxide fuel cell", N. Kakkidis, I. Garagounis, V. Kyriakou, V. Besikiotis, A. Arenillas, J.A. Menéndez, G.E. Marnellos, M. Konsolakis
- #710. "Response surface modeling and optimization of chromium (VI) removal from aqueous solution using date stones activated carbon in batch process", F. Kaouah, S. Boumaza, T. Berrama, L. Brahmi, Z. Bendjama
- #1376. "Green solvent sythesis from biomass based source by biocatalytic membrane reactor", F. U. Nigiz, N. D. Hilmioğlu

## Wednesday - June 11, 2014

## Parallel Session 7

	ROOM - OPAL A	ROOM - OPAL B	ROOM – KEHRIBAR A	ROOM – KEHRIBAR B	ROOM – TOPAZ A	ROOM – TOPAZ B
	<b>Renewable Energy 1</b> Session Chair: M.Tabatabaian	<b>Fuel Cells 2</b> Session Chair: B. Farid	<b>Solar Energy 3</b> Session Chair: A. K. Kolar	<b>Thermodynamic Analysis 2</b> Session Chair: M. A. F. Hamad	<b>Thermal Sciences 3</b> Session Chair: A. Lemonidou	<b>ETRERA 2020 BEST PRACTICES WORKSHOP</b>
09:00 – 10:40	<p>#733. "Survey of the local renewable energy support", <a href="#">L. Benko</a></p> <p>#818. "Potentials and prospects of renewable in Libya", <a href="#">S. P. Bindra</a>, F. Soul, S. D. Jabu, A. Allawafi, A. M. Belashher, H. Reani, S. Abulifa</p> <p>#1095. "Synthesis of titanium decorated graphene for renewable energy applications", <a href="#">Z. Gohari</a>, Y. Yurum</p> <p>#352. "Economic assessment of a renewable energy system for hydrogen and electricity production in the Bozcaada Island", <a href="#">Y. Kalinci</a>, A. Hepbasli, I. Dincer</p> <p>#803. "Thermodynamic modeling of an integrated energy system for polygeneration desing", <a href="#">Y. E. Yuksel</a>, M. Ozturk</p>	<p>#767. "Critical control volume sizing for improved control-oriented thermal modeling of PEM fuel cells", <a href="#">A. J. Headley</a>, D. Chen</p> <p>#98. "Performance improvement of interconnect used in Solid Oxide Fuel Cell (SOFC) via screen print coating", <a href="#">E. Aydin</a>, M. D. Mat, I. Demir, Y. Kaplan, N. Veziroglu</p> <p>#790. "Carbon based photoanode modification to create an efficient photoelectrochemical cell", <a href="#">D. C. Lim</a>, E. M. Hong, S. M. Choi, J. Y. Lee, S. Y. Park, G. Mul</p> <p>#51. "Development of 500 W PEM fuel cell system", <a href="#">Y. Devrim</a>, H. Devrim, I. Eroglu</p> <p>#892. "Flow velocity prediction for heat exchanger for fuel cell by test and analysis", <a href="#">S. Kim</a>, J. Kim, J. Jeong</p>	<p>#175. "Short term forecasting of the global solar irradiation using the fuzzy modeling technique: Case study of Tamanrasset City, Algeria", <a href="#">L. Saad Saoud</a>, F. Rahmoune, V. Tourtchine, K. Baddari</p> <p>#174. "Complex-valued wavelet neural network prediction of the daily global solar irradiation of the Great Maghreb Region", <a href="#">L. Saad Saoud</a>, F. Rahmoune, V. Tourtchine, K. Baddari</p> <p>#1242. "Exergoenvironmental comparison between solar power gas turbine and conventional gas turbine with recuperator", <a href="#">A. Rajaei</a>, H. Barzegar, E. Eslami</p> <p>#651. "Simulation of an indirect solar drying", <a href="#">R. Khama</a>, F. Aissani, R. Alkama</p> <p>#977. "Certification issue of solar photovoltaic modules for local production, problems and solutions in Turkey", <a href="#">Y. Bicer</a>, C. Özarpa, Y. E. Boke</p>	<p>#1610. "Fuel change effects on the gas turbine performance in IGCC application", <a href="#">M. M. Majoumerd</a>, M. Assadi</p> <p>#225. "Optimal configuration of water pumping systems for Ghardaia region, South Algeria", <a href="#">Y. Bakelli</a>, K. Gairaa, A. Boutelhig, I. H. Mahammed</p> <p>#320. "Reliability analysis of an autonomous hybrid power system", A. K. Chakraborty, D. Debnath, <a href="#">S. Ray</a></p> <p>#1607. Thermal modelling of fluidized bed gasification of rice straw", <a href="#">R. S. El-Emam</a>, I. Dincer</p> <p>#1181 "Investigation of effect of three different magnetic materials on cascade active magnetic regenerative refrigeration performance", <a href="#">H. Ganjehsarabi</a></p>	<p>#974. "Highly coke-resistant novel Ni-Ho/ZrO<sub>2</sub> catalyst for dry reforming of methane", A. H. Fakeeha, <a href="#">M. A. Naeem</a>, A. E. Abasaheed, W. U. Khan, A. S. Al-Fatesh</p> <p>#271. "Autothermal reforming of dodecane over yttrium strontium titanate based catalyst", <a href="#">K. Hbaieb</a></p> <p>#932. "On catalytic activity of palladium nanoparticles-based anodes towards formic acid electro-oxidation: effect of electrodeposition potential", <a href="#">I. M. Al-Akraa</a>, A. M. Mohammad, M. S. El-Deab, B. E. El-Anadoui</p> <p>#548. "Twin-Head platform", <a href="#">O. Tokar</a>, S. Kapkin</p> <p>#677. "Hydrotreatment of high acidity vegetable oil-heavy gasoil mixtures over a CoMo catalyst", A. Vonortas, A. Zerva, K. Philippopoulos, <a href="#">N. Papayannakos</a></p>	<p><b>Opening Speeches</b></p> <p>Welcome to Istanbul <a href="#">H. Gorgun</a></p> <p>Welcome to ICCE 2014 <a href="#">I. Dincer</a></p> <p>Introduction on the best practices Workshop <a href="#">A. Provaggi</a></p> <p>Presentation on ETRERA_2020 <a href="#">A. Soraci</a></p> <p><b>Solar: Best Practices presentations</b></p> <p>Project first classified "Innovative Glass Blocks for Solar Facades" <a href="#">L. Pastore</a></p> <p>Project "Proteas Polygeneration, a potential application for energy saving and peak load shaving A. Papadopoulos</p>

10:40-11:00  
Coffee Break

## Wednesday - June 11, 2014

## Parallel Session 8

	ROOM - OPAL A	ROOM - OPAL B	ROOM – KEHRIBAR A	ROOM – KEHRIBAR B	ROOM – TOPAZ A	ROOM – TOPAZ B
	<b>Fuel Cells 3</b> Session Chair: D. Bukur	<b>Energy Policy</b> Session Chair: T. Genc	<b>Thermodynamic Analysis 3</b> Session Chair: A. Beyene	<b>Environmental Issues</b> Session Chair: M. K. Khan	<b>Thermal Sciences 4</b> Session Chair: T. Ozturk	<b>ETRERA 2020 BEST PRACTICES WORKSHOP</b>
11:00 - 13:00	<p>#1041. "Corrosion resistance of uncoated SS316L as bipolar plate material in PEMFC environments: effect of the passive film properties", <u>Y. Yang</u>, X. Ning, H. Tang, L. Guo, H. Liu</p> <p>#1414. "Aquivioni PFSA membrane for solid polymer electrolyte electrolyser applications", S. Siracusano, V. Baglio, L. Merlo, E. Moukheiber, A. S. Arico</p> <p>#280. "Composite and blend membranes for Direct Methanol Fuel Cells (DMFC): Effects on proton conductivity and methanol permeability", <u>R. G. Akay</u>, N. Hilmioğlu, D. Unlu</p> <p>#57. "3 kW PEMFC piping and instrumentation diagram development and modeling for process control purposes", Y. Saygılı, S. Kincal, <u>L. Eroglu</u></p> <p>#58. "PEM fuel cell stack performances of silica doped nanocomposite membranes", <u>Y. Devrim</u>, H. Devrim</p> <p>#143. "Borohydride alkaline fuel cells: from electrocatalysis to platinum-free mixed reactant cell design", <u>E. Gyenge</u></p>	<p>#342. "Retrieving land surface temperature from ASTER data as quantitative data of the increase temperature, case study: The Forest of Merapi Volcano National Park, Indonesia", <u>K. I. N. Rahmi</u></p> <p>#624. "Socio-economic prospect of 2<sup>nd</sup> generation bio-fuels in Australia: A review", <u>A. K. Azad</u>, M. G. Rasul, M. M. K. Khan, S. C. Sharma</p> <p>#780. "Adjustment accuracy in control systems for reliability", <u>M. H. Hocine</u></p> <p>#736. "A holistic approach to sustainable development: Concept mapping of energy management", <u>M. Z. Sogut</u>, M. P. Uysal, Y. Gazibey, A. Hepbasli</p> <p>#1107. "Imperative to overcome structural issues in energy policy for a clean energy future", G. Hejazi, <u>C. Wimpler</u>, F. E. de Oliveira, M. Matos, S. Connors</p> <p>#89. "New Paths for the usage of solar thermal energy in Turkey", <u>A. Lokurlu</u>, C. Gunkel, D. Lokurlu</p>	<p>#848. "Numerical investigation on thermal performance of ground source heat pump using tank", <u>H. Dehghan</u>, N. Moslemi, M. Lashkarpour</p> <p>#633. "Thermodynamic optimization of oxy-fuel power cycle", <u>R. Karaali</u></p> <p>#788. "Determination of a turbofan engine's energy efficiency based on emissions at the phases of a flight" <u>Y. Sohret</u>, H. Karakoc, O. Turan</p> <p>#644. "Thermodynamic analyses of absorption cycles", <u>R. Karaali</u></p> <p>#802. "Thermodynamic evaluation of an integrated system with concentrating collector", U. Cevrimli, <u>Y. E. Yuksel</u>, M. Ozturk</p> <p>#866. "Thermodynamic modeling of micro turbine", <u>M. A. Pourmohammad</u></p>	<p>#446. "Co-benefits of energy-efficiency programs and projects in cost-benefit analysis - A case study for the cement industry", <u>A. Hasanbeigi</u>, A. Lobscheid, Y. Dai, H. Lu, L. Price</p> <p>#1534. "Low carbon sky related science &amp; technology education in Libya", <u>S. P. Bindra</u>, S. D. Jabu, A. Allawafi, S. Ali Saod, H. S. Reani, S. Abulifa</p> <p>#59. "Identification of pollution sources: A statistical-based approach", <u>A. Kouadri</u>, A. Kheldoun, L. Refoufi</p> <p>#447. "Emerging technologies for an energy-efficient, water-efficient, and low-pollution textile industry: A Technical review", <u>A. Hasanbeigi</u>, L. Price</p> <p>#1257. "Assesment of groundlevel ozone concentrations in the eastern province of Saudi Arabia", <u>A. Aksakal</u></p> <p>#989. "Estimation of CO<sub>2</sub> emissions for municipality of Ptolemaida in the framework of a Sustainable Energy Action Plan", N. Margaritis, P. Dallas, <u>P. Grammelis</u></p>	<p>#1137. "An assessment of microalgae cultivation potential using liquid waste streams: Opportunities and challenges F. Khademi, <u>I. Yildiz</u>, A. C. Yildiz, S. Abachi</p> <p>#503. "Improving WRF GHI forecasts with model output statistics", B. Barutcu, S. T. Tanriover, <u>S. Sakarya</u>, S. Incecik, F. M. Sayinta, E. Caliskan, A. Kahraman, B. Aksoy, C. Kahya, S. Topcu</p> <p>#187. "Application of a binary teaching learning based algorithm to the optimal placement of phasor measurement units", <u>A. Rezioui</u>, H. Bentarzi, A. Ouadi</p> <p>#1104. "Modeling and design of a microchannel reformer for efficient conversion of glycerol to hydrogen", O. Y. Caglar, <u>C. D. Demirhan</u>, A. K. Avci</p> <p>#149. "Support and crystallite size effects of Pt catalysts for the low temperature steam reforming of ethanol", <u>M. Kourtelesis</u>, P. Panagiotoπούλου, X. E. Verykios</p> <p>#116. "Effect of Mg<sub>3</sub>AlNi<sub>2</sub> content on the cycling stability of Mg<sub>2</sub>Ni-Mg<sub>3</sub>AlNi<sub>2</sub> hydrogen storage alloy electrodes", <u>S. L. Lee</u>, F. K. Hsu, Y. C. Tzeng</p>	<p><b>Solar: Best Practices presentations</b></p> <p>Projects "Electrification of small villages in Palestine by centralized and decentralized PV systems" and "Pre-heat swimming pool water by using solar water collectors" <u>I. Ibrik</u></p> <p>Project "Innovative Power Electronics for rural electrifications" <u>F. Reiners</u></p> <p>Project SUN4ENERGY <u>C. Cornaro</u></p> <p><b>Open discussion on lessons learned</b></p> <p><b>Smart Grids: Best Practices presentations</b></p> <p>Project first classified "Frequency Monitoring Network Architecture and Applications". <u>M. M. Eissa</u></p> <p>Project "Development of a Smart Grid-Compatible Smart Home Prototype with the Aims of Improving Energy Efficiency and Lowering Carbon Emission" <u>H. Görgün</u></p>
	<b>13:00-14:00 Lunch</b>					

## Wednesday - June 11, 2014

## Parallel Session 9

	ROOM - OPAL A	ROOM - OPAL B	ROOM – KEHRIBAR A	ROOM – KEHRIBAR B	ROOM – TOPAZ A	ROOM – TOPAZ B
	<b>Hydrogen Energy 7</b> Session Chair: H. K Abdel-aal	<b>Solar Energy 4</b> Session Chair: I. Benko	<b>Fuel Cells 4</b> Session Chair: A. K. Kolar	<b>Thermodynamic Analysis 4</b> Session Chair: O. Kizilkan	<b>Thermal Sciences 5</b> Session Chair: J. Dach	<b>ETRERA 2020 BEST PRACTICES WORKSHOP</b>
14:00 - 15:40	<p>#464. "Hydrogen generation and storage from sodium borohydride", <u>V. G. Minkina</u>, S.I. Shabunya, V.I. Kalinin</p> <p>#631. "Hydrogen production by catalytic gasification of coal in supercritical water with alkaline catalysts: Explore the way to complete gasification of coal", Z. Ge, H. Jin, <u>L. Guo</u></p> <p>#738. "Novel ABO<sub>3</sub>-based photocatalysts for water splitting under visible-light irradiation", <u>J. Shi</u>, L. Guo</p> <p>#666. "Enhanced efficiency and stability for visible light driven water splitting hydrogen production over Cd<sub>0.5</sub>Zn<sub>0.5</sub>S/g-C<sub>3</sub>N<sub>4</sub> composite photocatalyst", X. Wang, J. Chen, X. Guan, <u>L. Guo</u></p> <p>#668. "Remarkably enhancement on hydrogen production performance of Rhodobacter sphaeroides by redox and pigment regulation", X. Wang, H. Yang, Y. Zhang, <u>L. Guo</u></p>	<p>#590. "Study of the applications of triz theory and solar cell principle in the curtain wall design", J.I. Kuo, H. A. Chen, <u>H. M. Jeng</u></p> <p>#868. "Processes to high performance dye-sensitized solar cell", <u>C. G. Wu</u></p> <p>#1603 " Investigation of effect of using evacuated tube solar collector on solar pond performance", <u>A. Atiz</u>, I. Bozkurt, M. Karakilcik, I. Dincer</p> <p>#457. "Effective solar energy store for residential building by using phase change materials", <u>M. J. Huang</u></p> <p>#787. "Effect of Si-nanoparticles film on dye-sensitized solar cells performance and back electrons transfer", <u>I. Bedja</u>, R. K. Gupta</p>	<p>#1281. "Ultrasonic spray coating technique for high performance PEM fuel cell electrode manufacturing", S.Erkan, <u>I. Eroglu</u></p> <p>#1185. "Factors negatively affecting the energy efficiency of aluminium electrolysis cells", <u>E. E. Songul</u>, I. Duman</p> <p>#849. "Parametric study on a solid oxide fuel cell for reduced operating temperatures", <u>A. Alzahrani</u>, I. Dincer, X. Li</p> <p>#1008. "Preparation and characterization of a novel perovskite cathode material Ba<sub>0.5</sub>Sr<sub>0.5</sub>Cu<sub>0.7</sub>Fe<sub>0.3</sub>O<sub>3-1'</sub> for advanced solid oxide fuel cells", M. Afzal, <u>B. Zhu</u>, R. Raza, S. Du</p> <p>#196. "Microbial fuel cell as new source of power production and waste water treatment simultaneously", P. Izadia, <u>M. Rahimnejad</u>, A. A. Ghoreyshia, G. Najafpour</p>	<p>#906. "Modeling of ammonia combustion characteristics at preheating combustion", <u>J. Li</u>, H. Huang, H. Yuan, T. Zeng, M. Yagami, N. Kobayashi</p> <p>#1160. "Gaseous fuel for improving cold starting and reducing emissions of gasoline engines", A. Alashaab, H. Salem, <u>E. A. Serie</u>, B. Rabee, M. A. Aal</p> <p>#735. "Energetic and exergetic performance assessment of hydraulic balancing system developed for commercial and industrial buildings", H. Mutlu, <u>M. Z. Sogut</u>, T. H. Karakoç, N. Ister</p> <p>#693. "Potential for efficiency improvement of 4-stroke marine diesel gensets by utilization of exhaust gas energy", <u>D. T. Hountalas</u>, G. C. Mavropoulos, C. Katsanos, S. Daniolos, I. Dolatzis, N. Mastorakis</p> <p>#470. "Evaluation of glycerol ethers as alternative fuel additives for gasoline and diesel", <u>N. Baglar</u></p>	<p>#289. "Signal processing technology for rotating machinery fault signal diagnosis". B. K. Choi, <u>B. H. Ahn</u>, J. M. Ha, J. M. Lee, Y. H. Kim</p> <p>#769. "S and N co-doped carbon catalyst for oxygen reduction", <u>S. Liao</u>, C. You, D. Dang</p> <p>#311. "Effects of Bolt Torque on the Performance of Polymer Electrolyte Membrane Electrolyzers", O. F. Selamet, <u>M. S. Ergoktas</u></p> <p>#729. "Redox catalysts for clean energy", <u>F. Dehmchi</u>, F. Halaimia, A. Djerourou, T. Chelloufi, A.Gasmi, A. Boukhari</p> <p>#797. "Hydrogen production by autothermal reforming of methane over Ni-Pd catalysts: effect of support composition and preparation mode", I. Z. Ismagilov, E. V. Matus, V. V. Kuznetsov, M.A. Kerzhentsev, S. A. Yashnik, I. P. Prosvirin, N. Mota, R. M. Navarro, J. L. G. Fierro, <u>Z. R. Ismagilov</u></p>	<p><b>Smart Grids:</b> <b>Best Practices presentations</b></p> <p>Project "Smart Grid Controller For Low Voltage PV Network" <u>O. Kahraman</u></p> <p><b>Open discussion on lessons learned</b></p> <p><b>Wind:</b> <b>Best Practices presentations</b></p> <p>Project first classified "Enhanced WT" <u>L. F. Ribeiro, J. A. Rente Paulo</u></p> <p>Project TLPWIND <u>J. A. López</u></p> <p><b>Open discussion on lessons learned</b></p>
	<b>15:40-16:00 Coffee Break</b>					



## Wednesday - June 11, 2014

## Parallel Session 10

	ROOM - OPAL A	ROOM - OPAL B	ROOM – KEHRIBAR A	ROOM – KEHRIBAR B	ROOM – TOPAZ A	ROOM – TOPAZ B
	Hydrogen Energy 8 Session Chair: J. Zhao	Heat Transfer Session Chair: M. Rokni	Thermal Sciences 6 Session Chair: S. Liao	Green Buildings 3 Session Chair: D. Francese	Wind Energy Session Chair: T. Serradj	ETRERA 2020 BEST PRACTICES WORKSHOP
16:00 - 18:00	<p>#660. "Synthesis and characterization of SrTiO<sub>3</sub>/Ag<sub>3</sub>PO<sub>4</sub> composite for efficient photocatalytic O<sub>2</sub> evolution under visible-light irradiation", <u>X. Guan</u>, J. Shi, L. Guo</p> <p>#630. "Experimental investigation on supercritical water gasification of lignite with high Na content", <u>X. Su</u>, H. Jin, L. Guo, S. Guo, Z. Ge</p> <p>#636. "Study on gasification kinetics of lignite in supercritical water", H. Jin, <u>L. Guo</u>, Z. Ge, S. Guo, Y. Lu</p> <p>#656. "Distance modulated plasmonic enhancement in visible light photocatalytic activity for hydrogen evolution over Ag@SiO<sub>2</sub> modified g-C<sub>3</sub>N<sub>4</sub>", <u>J. Chen</u>, Y. Du, S. Shen, L. Guo</p> <p>#663. "Facile synthesis of high-indexed SrTiO<sub>3</sub> single-crystal photocatalysts for solar water splitting", <u>B. Wang</u>, S. Shen, L. Guo</p> <p>#121. "Ga doped RGO-TiO<sub>2</sub> composite on ito surface electrode for investigation of photoelectrocatalytic activity under visible light irradiation", <u>R. Hasan</u>, S. B. B. A. Hamid, W. J. Basirun, Z. Z. Chowdhury</p>	<p>#864. "Numerical simulation of heat transfer to TiO<sub>2</sub>-water nanofluid flow in a double-tube counter flow heat exchanger", <u>C. S. Oon</u>, H. Nordin, A. Al-Shamma'a, S. N. Kazi, A. Badarudin, B.T. Chew</p> <p>#669. "Investigations on thermal radiative characteristics in a lab scale furnace: Effect of addition of nanoparticles to LPG combustion", <u>K. Waheed</u>, S. W. Baek, I. Javed, Y. Kristiyanto</p> <p>#366. "Experimental study on comparison between buoyancy driven and Lewis number induced self-excitations in laminar lifted coflow-jet flames", W. J. Lee, <u>J. Park</u>, O. B. Kwon, J. H. Yun, S. I. Keel, T. H. Kim, Y. J. Kim</p> <p>#130. "Effects of oil palm shell volume fractions on thermal conductivity for insulations concrete", <u>E. Serri</u>, M. Z. Suleiman, M.A. Othuman</p> <p>#1250. "Heat transfer enhancement in compact heat exchangers", <u>M. Nikian</u>, H. Shokouhmand, Z. Davari</p> <p>#334. "Phenomenological study of a cylindrical solar water heater : Critical analysis of the mathematical model", <u>O. Bait</u>, M. Si-Ameur, A. Benmoussa</p>	<p>#363. "Effect of electric fields on flame spread over polyethylene insulated electrical wire near the end", S. J. Lim, M. K. Kim, <u>J. Park</u>, S. H. Chung, O. Fujita</p> <p>#726. "Combustion characteristics of an ammonia-gasoline dual fueled spark ignition engine", <u>Y. Woo</u>, J. Y. Jang, Y. J. Lee, J. N. Kim</p> <p>#1148. "The influence of pH hydrolysis on productivity of 1.2 MWe agricultural biogas plant installation", <u>J. Dach</u>, R. Szulc, Z. Zbytek, K. Jóźwiakowski, A. P. Cyplik, P. Cyplik, A. K. Juško, P. Boniecki</p> <p>#691. "Carbon sequestration by direct seeding of wheat in Setif high plains (North east of Algeria)", <u>M. Fenni</u>, K. Nadjem, A. Mekhlouf</p> <p>#798. "Design of highly efficient catalyst for rational way of direct conversion of methane", I. Z. Ismagilov, E. V. Matus, V. V. Kuznetsov, M. A. Kerzhentsev, I. P. Prosvirin, N. Mota, R. M. Navarro, J. L. G. Fierro, G. Gerriten, E. Abbenhuis, <u>Z. R. Ismagilov</u></p> <p>#766. "Oxidation of Paracetamol and Nystatin by TiO<sub>2</sub> photocatalysis", <u>K. Akhrib</u>, S. Bouafia, M. Chabani, A. Bensmaili</p>	<p>#532. "The sustainable potential of digital fabrication processes and de-standardization of architectural products", <u>R. Siani</u></p> <p>#1216. "Proper utilization of passive solar energy in residential buildings, North Cyprus", S. A. Mirrezaei, H. Sevinc, <u>A. Azami</u></p> <p>#1196. "Economic benefit and health of thermal insulation in residential buildings", <u>F. Roudi</u>, S. Roudi</p> <p>#1198. "Potential of passive solar apartment houses in Gazimagusa, North Cyprus", <u>F. Roudi</u>, D. Roudi</p> <p>#685. "Optimum solar collector suitable for Duhok City", <u>S. A. Na'man</u>, H. Y. Yacoob, O. S. Omar</p> <p>#206. "Energy benefits of dynamic commercial building facades", H. Shen, <u>A. Tzempelikos</u></p>	<p>#359. "Experimental and theoretical modeling of 5 MW offshore wind turbine with TLP platform", M. M. Etefagh, <u>M. Alipour</u>, Y. Golizadeh, E. Akbari</p> <p>#806. "Wind resource assessment and micrositting: A case study for Turkey", M. Süel, <u>B. Ozerdem</u></p> <p>#862. "Investigation of the long term resource variation in Western Coast (Aegean Sea) of Turkey through use of MERRA Reanalysis data", <u>K. C. Gkarakis</u></p> <p>#1141. "Using remote sensing technologies for wind turbine/farm health monitoring", <u>M. Ozbek</u>, D. J. Rixen</p> <p>#1176. "Dynamic stability analysis of wind turbines through in-field vibration tests", <u>M. Ozbek</u></p> <p>#1063. "Assessment wind field in the region of Annaba East Algeria with an aerodynamic analysis for installation a small wind turbines", N. Zerari, <u>A. Benretem</u>, D. Khalfa</p>	<p><b>Wind:</b> <b>Best Practices presentations</b></p> <p><b>Wrap-up discussion on lessons learned</b></p> <p><b>Award Ceremony</b></p> <p><b>Networking at ICCE</b></p>

## Wednesday - June 11, 2014

## Poster Session 4

09:00 - 13:30

- #374. "Durability of high temperature polymer electrolyte membrane fuel cells in start/stop operation mode using reformed gas", J. Kim, B. G. Lee, M. Kim, Y. J. Shonb
- #461. "Assessment of the wind field in the East Coast Algerian Regions for the installation of wind farms", N. Zerari, A. Benrettem, D. Khalfa
- #472. "The concept of mono-, bi- and poly- branch components of transmission transport's point infrastructure on the example of Silesian energy sector", A. Pabian, M. S. Patyk, M. Zawada, M. Szajt
- #475. "Spatial diversity of renewable energy sources usage in European Union countries between 2001 and 2011", M. Zawada, M. Szajt, M. S. Patyk, A. Pabian
- #513. "A convective solar drying of broad beans (*Vicia faba*). An experimental comparative study", S. S. Chouicha
- #518. "Chemical associations and adsorption capacity of Pb and Zn in a polluted soil : laboratory batch and column experiments", L. Mouni, B. Lazhar, Y. Kadmi
- #531. "Control of a single stage grid connected PV inverter based on direct space vector PVM", F. Akef, T. Ghennam, M. Laour, D. Bendi, E. Berkouk, M. Chikh
- #560. "Experimental study of parameters influencing the operation of spherical solar still", S. Karroute, A. Chaker
- #575. "NiAl-R layered double hydroxide calcined at different temperature for methane reforming with carbon dioxide", T. Fouzia, K. Wahiba, H. Djamilia, T. Mohamed, B. Khaldoun
- #579. "Thermal solar energy systems for space heating of buildings", Z. F. Ilhem
- #583. "Numerical simulation of phase change in mini-channels using VOF model", G. Mebarki
- #585. "Biodiesel production from waste cooking oil", F. Danane
- #615. "Study of pesticide photocatalytic degradation by heterogeneous photocatalysis", N. Chekir, O. Benhabiles, D. Tassalit, N. A. Laoufi, F. Bentahar
- #617. "The interest of the risk analysis of in an environmental study", F. Yamina
- #637. "Comparative techno-economic analysis of small scale bio-oil/biomass fuelled cogeneration for domestic houses using an IC engine and organic rankine cycle", Y. Huang
- #639. "A simulation and environmental LCA of a solar PV, Stirling engine CHP and battery storage system", P. Balcombe, A. Azapagic, D. Rigby
- #646. "Ozone levels in two biggest metropolians of Turkey", B. Ozer, H. Toros, H. Erdun, O. Capraz, A. I. Ozturk
- #648. "Manufacturing and characterization of micro tubular PCFC fuel cells & cell components", O. Y. Akduman, E. F. Ipcizade, A. M. Soydan, Ö. Yildiz
- #673. "Critical parameters in grid connected photovoltaic power plants designing with transformerless inverter topology", H. Jahed
- #674. "FACT devices effect on measurement and its mitigation using digital filter", A. Ouadi, M. Chafai, H. Bentarzi
- #678. "Thermodynamic modeling and performance analysis of a micro CHP cycle with recuperated micro-turbine", A. H. J. Azad, A. R. Zadeh, M. R. J. Azad, Y. Sarafraz
- #679. "Crude soybean oil catalytic hydrocracking over ZSM-5 and USY", N. R. C. F. Machado
- #681. "Influence of Nb<sub>2</sub>O<sub>5</sub> and TiO<sub>2</sub> supports in the stability of Cu-Ni catalysts in ethanol reactions for hydrogen production", N. R. C. F. Machado
- #689. "Effect of microturbine inlet cooling on its performance", A. H. J. Azad, M. Adim, Y. Sarafraz, M. R. J. Azad
- #692. "Comparison of sugeno fuzzy logic and angstrom models for solar radiation estimation", Y. S. Guclu, M. O. Yelegen, I. Dabanli, E. Sisman
- #694. "Analysis of swirl generator inserted into a tube: Entropy resistance minimization", A. Yataqanbaba, I. Kurtbas
- #696. "An optimized fuzzy sliding mode control of a doubly fed induction generator in wind turbines", D. E. Chaouch, A. Mouffak, A. Zouggar
- #699. "A fuzzy sliding mode control of a doubly fed induction generator in wind turbines", A. Mouffak, D. E. Chaouch, A. Kerboua
- #700. "CHP solutions for sustainable development and new clean infrastructure energy resources CHP solutions for sustainable development and new clean infrastructure energy resources", A. H. J. Azad, M. Zareasani, M. R. J. Azad, Y. Sarafraz
- #701. "Straightforward and cleaner technology for the synthesis of heterocyclic by microwave irradiation", N. Kesraoui
- #702. "Investigation of nitrogen oxides emissions form a n-heptane fueled HCCI engine: Impacts of engine operating parameters", K. Bagheri, K. Bahlouli, R. K. Saray, U. Atikol
- #703. "Photocurrent improvement in AlGaAs quantum well solar cells", T. Abdelkrim
- #704. "The potential of geomatics in the realization of a map of desertification sensitivity Southern Massif Belezma (Batna)", B. Hassen
- #706. "Modification of porous silicon surface with functionalized polymer for metal detection", F. Z. Tighilt, N. Belhaneche, N. E. Gabouze, S. Sam
- #711. "Effect of the spacing between two heat sources on the convective heat transfer in a square cavity", B. M. Salah, M. Razli, E. M. Mohamed, B. Salah
- #712. "Adsorption of heavy metal ions from aqueous solutions by activated carbon prepared from lignocellulosic biomass", N. Madani, N. Bouchenafa, B. Hamada, O. Chérifi
- #714. "Biogas production from fruit juice industry effluents in Algeria", S. Zerrouki, R. Rihani, F. Bentahar
- #717. "Feasibility analysis of industrial microgrids in emerging markets: A case study in Brazil", C. Pica
- #721. "Biodiesel production from non-edible plant species", A. C. Ahmia, F. Danane, R. Bessah, I. Boumesbah
- #725. "Energy and exergy analysis of single and double effects lithium bromide (LiBr) absorption cycles driven by a HCCI engine", K. Bahlouli, R. K. Saray, U. Atikol, Y. Cham
- #737. "Biosorption of pharmaceutical pollutant", H. Cherifi, F. Bentahar, S. Hanini
- #749. "Microwave-assisted extraction in natural products isolation case of essential oil of Hawthorn vegetal parts", N. Tigrine
- #750. "Modeling and analysis of aluminum/air fuel cell", A. J. Leon, A. Zilouchian

## Wednesday - June 11, 2014

## Poster Session 4 (Continued)

09:00 - 13:30

- #755. "Numerical simulation of heat and mass exchange within metallic foam used for cooling of power electronic components", S. Boulahrouz, Y. Avenas, A. Haddouche
- #756. "Investigation properties of Au-porous a-SiO<sub>2</sub>.6C0.4 :H as humidity sensor", B. S. Assia
- #759. "Effect of exit temperature on the energy/exergy efficiencies of a turbojet engine combustor", A. Topal, O. Turan, S. Uslu, M. Z. Söğüt
- #774. "On-site purification of hydrocarbon gaseous feedstock with H<sub>2</sub>S selective catalytic oxidation for air pollution control", S. R. Khairulin, Z. R. Ismagilov, V. V. Kuznetsov, G. A. Aleksandrovich, R. G. Garifullin, F. A. Zakiev, S. F. Takhautdinov
- #781. "Study on industrial pollutants and hazardous phenomena in Annaba", A. Boukhari
- #794. "Fabrication of Cu fine metal mesh electrode for hybrid photovoltaic cell", S. H. Jeong, S. M. Choi, J. Y. Lee
- #799. "Study of economic viability of photo-voltaic electric power generation system for UET Taxila Pakistan", F. U. M. Allah
- #800. "CO<sub>2</sub> splitting by solar two-step thermochemical cycles with Fe, Cr, Ni and Li doped CeO<sub>2</sub> solid solution", Y. Lu, L. Zhu, C. Zhang, F. Li
- #808. "Modeling and analyzing of a ceiling board cooling system working with phase change materials", M. Najafpour, M. Sameti, A. Kasaeian
- #811. "Design adaptive filter to reduce destructive signal in modeling SOFC", M. Khorasany
- #814. "Thermodynamic performance analysis of turboprop engine using mixture of kerosene and methanol", S. Ekici, O. Altuntas, M. Z. Sogut, T. H. Karakoc
- #816. "Biofuel production from sunflower oil and determination of fuel properties", I. Boumesbah, Z. H. -Sadouk, A. C. A hmia
- #821. "Modelisation of an experimental spark- ignition engine combustion chamber from pressure cycles", A. Djouadi, F. Bentahar
- #823. "Thermal design and testing of mini-scaled heat sink for 400 W thermoelectric generator driven by exhaust-gas from vehicle engine", M. K. Mansour, H. Mashmouchy
- #846. "Study of ventilating buildings multizones", A. Kaddour, B. Benyoucef, S. M. A. Bekkouche, S. Bezari
- #855. "Adsorption of methylene blue from aqueous solution by natural clays", B. Habiba, B. Meriema
- #903. "A model on a circulating fluidized bed process for capturing CO<sub>2</sub> from flue gas", J. H. Choi, C. K. Yi, S. H. Jo, Y. C. Park
- #905. "Effective manufacture a free-standing TiO<sub>2</sub> nanotubes array without bottom barrier layer for dye-sensitized solar cells", S. H. Chien, W. K. Tu, J. S. Chen
- #928. "Empirical correlation of global solar radiation with meteorological data for south of Algeria", S. Benkaciali, K. Gairaa
- #942. "Effect of different parameters on the solar drying of henna; experimental investigation", A. Labed, N. Moumami, M. Zellouf, K. Aoues, A. Rouag
- #944. "Modeling of exhaust (waste) water in the extraction of hydrogen sulfide in the Black Sea", M. S. Tsitskhishvili, A. E. Shaptoshvili, A. Veziroglu
- #948. "Tribological behavior of aisi 316l stainless steel for surgical implants", O. Assala
- #975. "Investigation of photobioreactor design for biomass production by green microalgae", A. Ounnar, F. Kaidi, L. Benhabyles, M. A. Aziza
- #982. "Bioethanol production from biomass of algae Spirogyra grown in Ouargla-Algeria", S. Zighmi, S. E. Bencheikh, M. B. Goudjil, S. Ladjel
- #1081. "Comparison study of maximum power point tracking techniques for solair modules", D. Beriber, A. Talha, M. S. Boucherit, F. Bouchafaa
- #1144. "Daylighting analyses on human health in buildings", P. Tahermoghaddas, R. Fathipour, A. Azami
- #1145. "Experimental approach to education of sustainable architecture in design studio courses in Iran", R. Fathipour, A. Azami, M. B. Zamzami

## Wednesday - June 11, 2014

## Poster Session 5

13:30-18:00

- #36. "Enhanced performance of sulfate-reducing bacteria-microbial fuel cells", H. L. Weng, D. J. Lee
- #87. "Study of heat transfer and productivity of a concrete solar still", Z. Djamila, B. Randha, A. Hanene, T. Zahia
- #594. "Quality of air in the Jubail industrial city and its comparison with other major cities in the world", A. Aksakal
- #602. "A hybrid power system design and simulation using matlab/simulink", A. Ouadi, H. Bentarzi
- #621. "The study on catalytic performance of  $LA_{1-x}Sr_xCr_{1-y}Mn_yO_{3-\delta}$  catalyst in propane steam reforming", N. H. Kim, J. M. Sohn
- #632. "Thermodynamic analyses of power cycles in space", R. Karaali
- #676. "Capacitor bank resizing in islanded power grid fed by induction generator", S. Boutora, H. Bentarzi, A. Ouadi
- #753. "Energetic and exergetic performance assessment of a tank engine at various test procedures", O. Altuntas, M. Z. Sogut, T. H. Karakoc
- #764. "Modeling of thermal performance of atmospheric cooling tower", N. N. Meneceur
- #776. "Transient natural convection in a habitat model subjected to a pulsating heating on the upper half south face", S. Laouar, L. Abada, E. Mezaache
- #819. "Residues of pharmaceuticals in the urban wastewater", H. Ghoualem
- #820. "Application of the calculated PWM technique in the photovoltaic pumping system", A. Bouchakour, M. Brahami, A. Borni, L. Zaghba
- #826. "Maximum wave power transfer analysis of a buoy in heave motion", N. Yilmaz, B. Karayaka, D. Souders
- #832. "A statistical approach to estimate wind energy power potential", M. Sandal, M. Dogan, V. Yilmaz, Z. Yildiz
- #843. "Electrochemical boron-doped diamond film microcells micromachined with femtosecond laser: Application to the determination of water framework directive metals", L. Hamlaoui
- #852. "Valorization of petroleum loads by thermal process", N. Ben Tahar, H. Mimoun
- #854. "The energy impact of dynamic commercial building facades", A. Tzempelikos, H. Shen
- #875. "Promising areas for the use of wind power in Egypt", A. A. El-Haroun
- #894. "Studies on the removal of Pb(II) and Zn (II) from wastewater by activated carbon developed from Dates stone activated with sulphuric acid", L. Mouni, L. Belkhir, M. Tafer, F. Zouggaghe
- #909. "Short term wind speed prediction using artificial neural networks based on levenberg-marquardt optimization method", B. Dehghan, R. Amirzehni, B. Barutcu
- #912. "Removal of chromium(VI) from wastewater using NiO nanoparticles", N. K. Srivastava
- #921. "Barriers and solutions to the development of renewable energy technologies in the Caribbean", K. Richter
- #923. "Studies on removal of trivalent chromium from aqueous streams using strongly cationic sulphonated divinylbenzene copolymer resin: process parameter, equilibrium and kinetic study", S. Bajpai, S. Joshi, V. Bajpai
- #924. "Wastewater treatment plant sludge conditioning feasibility using prickly pear cactus (*Opuntia ficus indica*) juice", H. Betatache, A. Aouabed, M. Bezzina
- #929. "Regeneration of granular activated carbon saturated by organic matter with irradiation gamma (60Co\*) and thermal regeneration", A. Aouabed; Z. Ferroukhi, M. Bezzina, S. Loualhi
- #934. "Steam reforming of toluene over commercial Ni and Ru-based methane reforming catalysts", S. J. Yoon
- #950. "The performance analysis of solar thermal /ground coupled heat pump hybrid system with two condensers", N. C. Baek, E. S. Yoon, U. C. Shin, J. Yoon
- #960. "GHG emissions and monetary analysis of electric power sector of Pakistan Alternative scenarios and it's implications", U. B. Perwez
- #963. "Study of a PV-wind-electrolyzer-fuel cell hybrid system", A. Gueridi, A. Khellaf, D. Semmar, L. Loukarfi
- #964. "Synthesis and characterization of sputtered Cu(In,Ga)Se<sub>2</sub> thin films onto TCO-covered glass substrate for solar cell applications", I. Bouchama, K. Djessas, A. Bouloufa, J. L. Gauffier
- #965. "Comparison of new CO<sub>2</sub> trans-critical refrigeration cycle with ejector", R. Gommri, N. Khellaf
- #991. "Enhancement of electrocatalytic performance of Pt nanocatalysts supported by C-N covalent bonding on micro/nano carbon structures for micro DMFCs", L. Y. Lin
- #993. "The economic profit and energy efficiency evaluation for two-stage biological hydrogen / methane productions from food industry wastewater", C. M. Liu, Y. C. Li, S. Y. Wu, C. Y. Chu
- #995. "Photocatalysis application for the removal of pharmaceutical persistants pollutants in water", T. Djalil, C. Nadia, F. Bentahar, B. Ouassila
- #997. "Absorption cooling machines using the heat of Algeria geothermal resources", S. Khelifa
- #998. "Optimal sizing of PV lighting system using genetic algorithms: Application to a site in South Algeria", S. Makhloufi
- #999. "Developing a poly(2,6-dimethyl-1,4-phenylene oxide)-based alkaline anion exchange membrane for enhanced alkaline stability", G. A. Ari, C. Iojoiub, J. Y. Sanchezb
- #1003. "Study on modification mechanism of ternary carbonates with additives", M. Cai, Y. Wu
- #1013. "Economic analysis of photovoltaic power plants in Iran with new governmental renewable energy support program", S. Edalati, V. Nakhaei, M. Ameri, M. Iranmanesh
- #1017. "Maximum power point trackers for photovoltaic systems using two robust controllers", N. O. Cherchali, A. Morsli, M. S. Boucherit, L. Barazane, A. Tlemcani
- #1026. "Full load and load cycle testing of a 12 kW biomass boiler using different pellet qualities: Impact on efficiency and emissions", E. Karampinis, P. Grammelis, P. Pallis, P. Vourliotis, E. Kakaras
- #1027. "Analysis of adsorption refrigeration system driven by solar energy", R. Gommri, B. Mebarki
- #1030. "Greek lignite / biomass co-firing: An overview", E. Karampinis, P. Grammelis, N. Nikolopoulos, E. Kakaras

## Wednesday - June 11, 2014

## Poster Session 5 (Continued)

13:30-18:00

- #1031. "Biohydrogen production from mushroom cultivation waste by anaerobic mixed microflora using solid-state fermentation", [C. H. Lay](#), C. C. Chen, B. Sen, I. Y. Song, C. Y. Lin
- #1035. "Removal of Cu (II), (Ni (II), Cd (II), Zn (II) and Ag (I) from aqueous solution by polythioamide and by copoly(amide-thioamide)", [F. Z. Ramdane](#), G. Tabak, N. Khellafi
- #1037. "Simulation of graded band gap CdS/CIGS heterojunction solar cell by AMPS-1D", [B. S. Hassane](#)
- #1038. "Methane formation from photoreduction of CO<sub>2</sub> with water using a spherical Ni-doped TiO<sub>2</sub>", [B. S. Kwak](#), M. Kang
- #1042. "Power generation and heat recovery using a combined heat pipe-thermoelectric system", [M. F. B. Remeli](#)
- #1045. "Use of municipality water system for building cooling as an alternative to conventional ground source heat pump", [Y. C. Sezgin](#), M. Celik
- #1048. "Contribution to the control of a wind system with storage for improving power quality", [I. Hamzaoui](#), F. Bouchafaa, A. Talha
- #1056. "Selective removal of radionuclides from the spent fuel storage basins and the nuclear reactor primary water circuit using modified silica ion exchangers", [D. Chmielewska](#), E. Panczyk
- #1057. "PEM fuel cell heat management with pulsating flow field", [M. Rahgoshay](#)
- #1067. "Design of experiments for the development of a thermal insulating and noise absorbing plaster", [G. Tomasoni](#), I. B. Franch, P. Cocca, M. Alberti
- #1082. "Study and design of the condenser of a solar adsorption refrigerator", [A. Rouag](#)
- #1085. "Dynamically hydrogen production by ethanol steam reforming reaction over 30CoxVy/70SBA-15 catalysts", [M. Kang](#)
- #1089. "Air gasification of palm kernel shell and mixed paper waste in fixed bed reactor to produce syngas", [A. B. Alias](#)
- #1099. "Composite proton exchange membrane by Ptfе nanoporous film sealed glass microporous fiber for phosphoric acid fuel cell", [C. L. Lu](#), F. G. Tseng
- #1115. "Contribution to the design of the heat exchangers of a solar adsorption refrigerator: Condenser sizing calculations", [A. Rouag](#), A. Benchabane, N. Boulif, A. Labeled
- #1118. "Dynamics molecular simulation of the mechanical and electronic properties of nanotubes /polyethylene nanocomposites", [K. Kessaissia](#), A. A. Benamara, M. Lounis, R. Mahroug
- #1154. "Study of ionic exchanges during the adsorption of manganese on vermiculite.", [B. Kebabi](#), H. Bougherara, L. Reinert, L. Ducleaux
- #1188. "Biodegradation of o-cresol by a Pseudomonas Spp", A. Hamitouche, Z. Bendjama, [A. Amrane](#), F. Kaouah
- #1193. "Power control of grid-connected photovoltaic systems", H. Boumaaraf, [A. Talha](#), O. Bouhali
- #1213. "Contribution for amelioration on the treatment schema applied at deoiling station in Haoud Berkaou HBK center", [Z. Chaich](#), N. Chaouch
- #1247. "One approach to building's thermal non-destructive testing", [S. Danilova-Tretiak](#), V. Leschenko, T. Schelak
- #1360. "Hydrogen in calcium alanate Ca(AlH<sub>4</sub>)<sub>2</sub> and in hydrides of aluminum and calcium.", S.Y. Zaginaichenko, [D. V. Schur](#), Z. A. Matysina, A. Veziroglu, D. A. Zaritskii
- #1459. "Adsorption of chromium (III) on vermiculite", [H. Bougherara](#), B. Kebabi, S. Zerouel, L. Reinert, L. Duclaux
- #1627. "Turkey's energy demand, production and policies", [M. Toptas](#)

## Thursday - June 12, 2014

## Parallel Session 11

	ROOM - OPAL A	ROOM - OPAL B	ROOM – KEHRIBAR A	ROOM – KEHRIBAR B	ROOM – TOPAZ A	ROOM – TOPAZ B
	<b>Hydrogen Energy 9</b> Session Chair: H. Yuan	<b>Fuel Cells 5</b> Session Chair: C.G. Wu	<b>Battery Technologies</b> Session Chair: M. Gamberi	<b>Thermal Sciences 7</b> Session Chair: A. Bouloufa	<b>Thermodynamic Analysis 5</b> Session Chair: C. O. Colpan	<b>Renewable Energy 2</b> Session Chair: F. Benkacali
09:00 - 10:40	<p>#148. "Safety rules and measures to be taken where hydrogen gas is stored", F. Bedir, M. Kayfeci, U. Elmas</p> <p>#1259. "Catalytic steam reforming of olive mill wastewater for hydrogen production", A. Casanovas, A. Galvis, J. Llorca</p> <p>#157. "Hydrogen generation from waste Mg-Al based intermetallic material in various saline solutions (NiCl<sub>2</sub>, CoCl<sub>2</sub>, CuCl<sub>2</sub>, FeCl<sub>3</sub>, MnCl<sub>2</sub>) without catalyst", A. K. Figen, B. Coskuner, S. Piskin</p> <p>#1219. "Hydrogen production by steam reforming of bioethanol over highly stable Ce:La catalysts", D. R. A. El-Hafiz, M. A. Ebiad, R. A. Elsalamony, L. S. Mohamed</p>	<p>#658. "Reverse current during start-up in PEM fuel cells", F. Jia, F. Liu, L. Guo, H. Liu</p> <p>#659. "Effects of micro porous layer under wide operation conditions in proton exchange membrane fuel cell", G. Chen, L. Guo, H. Liu</p> <p>#626. "N ion implanted ZnO nanorod arrays: Engineered band structure for improved photoanodic performances", S. Shen</p> <p>#739. "Different metal element doped hematites and their electronic characterizations for solar water splitting application", J. Su, C. Liu, L. Guo</p> <p>#662. "Facile synthesis of highly monodisperse A-Fe<sub>2</sub>O<sub>3</sub> quantum dots for water oxidation", J. Wang, N. Zhang, L. Guo</p>	<p>#742. "Nanocomposite based on Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub> structures for rate Li-Ion battery applications", A. Erdas, S. Ozcan, A. Akbulut, M. O. Guler, T. Cetinkaya, M. Uysal, H. Akbulut</p> <p>#745. "Electrochemical evaluation of high rate Cu / LiCr<sub>2</sub>/3V1/6Mn1/6O<sub>2</sub> nanocomposites structures as cathode electrodes for Li-Ion batteries", S. Ozcan, S. Ozcan, A. Erdas, A. Akbulut, M. O. Guler, T. Cetinkaya, M. Uysal, H. Akbulut</p> <p>#744. "Cr and V Substituted LiMn<sub>2</sub>O<sub>4</sub> cathode electrode materials for high rate battery applications", A. Akbulut, A. Erdas, S. Ozcan, M. O. Guler, T. Cetinkaya, M. Uysal, H. Akbulut</p> <p>#1110 "A novel battery system for fully electric vehicles", T. Sarikurt, A. Balikci</p> <p>#746. "Effect of MWCNT content on the electrochemical behavior of pulse electro co-deposited Cu-Sn/MWCNT nanocomposite anodes for Li-ion batteries", H. Gul</p>	<p>#1271. "Preparation of carbon molecular sieves from Broom Sorghum wastes via pore size modification by methane and its application for CO<sub>2</sub> capture", F. Banisheikholeslami, A. A. Ghoreyshi, M. Mohammadi, R. Ghoreyshi</p> <p>#499. "Micro- and Macro-encapsulation of phase change materials by rmulsion co-polymerization method", M. Unal, Y. Konuklu, H. O. Paksoy</p> <p>#1215. "Electrooxidation of small organic molecules at PT-based electrodes modified with nickel oxide nanostructured", S. M. El-Refaei, G. A. M. El-Nagar, A. M. Mohammad, M. S. El-Deab, B. E. El-Anadouli</p> <p>#1633. "Modeling of flow around a solid body in free and restricted fluidal mediums", M. Suner</p> <p>#690. "Effects of side chain lengths of ionic liquids on bitumen-aggregate interactions", H. Komurcu, A. Abdula, S. Gurdal, M. Yasar, R. O. Caniaz, R. Cimen, E. Y. Gumruk, I. D. Gunbas, E. Baskent, S. Arca</p>	<p>#545. "Performance evaluation of an air source heat pump coupled with a building integrated photovoltaic/thermal (BIPV/T) system", G. Hailu, A. Fung</p> <p>#550. "A TRNSYS simulation: Case study on energy saving and GHG emission reduction from coupling air source heat pump with photovoltaic/thermal collector", R. S. Kamel, A. S. Fung I</p> <p>#968. "District heating and heat savings in future Danish energy system", S. Petrovic, K. Karlsson</p> <p>#1061. "Thermodynamic and performance analyses of Cu-Cl hydrogen production integrated solar parabolic trough collector system under Algerian climate", M. Ouagued, A. Khellaf, L. Loukarfi</p> <p>#533. "Influence of a porous medium on a multi-plate thermoacoustic system", S. Mahmud</p>	<p>#318. "Techno-economic feasibility analysis of hybrid wind/PV/battery power system for a household in Nigde, Turkey", O. Genc, M. Gokcek</p> <p>#1123. "Techno-financial analysis of Energy access through Hybrid system with Solar PV under various rural community models for State of Uttarakhand India", A. Verma, S. Biswas</p> <p>#574. "Thermal analysis of wind turbine nacelle of 2.5 MW turbines at winter conditions", K. N. Tekin, T. Yavuz, E. Koc</p> <p>#388. "Aryas C cycle -climate change: impact on water and energy resources in Himalaya", R. Arya</p>

10:40-11:00  
Coffee Break

## Thursday - June 12, 2014

## Parallel Session 12

	ROOM - OPAL A	ROOM - OPAL B	ROOM – KEHRIBAR A	ROOM – KEHRIBAR B	ROOM – TOPAZ A	ROOM – TOPAZ B
	<b>Hydrogen Energy 10</b> Session Chair: S. Kottou	<b>Waste Management 3</b> Session Chair: I. Bedja	<b>Thermodynamic Analysis 6</b> Session Chair: A. S. Hassan	<b>Thermal Sciences 8</b> Session Chair: M. Ozturk	<b>Solar Energy 5</b> Session Chair: A. Aksakal	<b>Thermal Sciences 9</b> Session Chair: G. Ramis
11:00 - 13:00	<p>#1071. "Sustainable hydrogen production by PEM electrolysis for e-mobility", <u>J. M. S. S. de Herrera</u>, R. Bonelli, N. Briguglio, S. Siracusano, A.S. Arico, G. Fasola, M. Toschi, G. Gorni, V. Antonucci</p> <p>#1186. "Fabrication of aminocompounds using transition metal doped TiO<sub>2</sub>", A. Abidov, F. Xiao, B. Allabergenov, X. Jin, H. J. Kim, H. M. Jung, K. H. Jhee, S. W. Jeong, <u>S. Kim</u></p> <p>#1113. "Thin Film Nb-Ti-Pd membranes for hydrogen separation", F. Piskin, <u>I. Ozturk</u></p> <p>#267. "Fixed bed membrane reactor for hydrogen production: Experimental and modelling approach", <u>G. Di Marcoberardino</u>, F. Sosio, G. Manzolini, S. Campanari</p> <p>#1490. "The photocatalytic production of hydrogen", <u>H. M. H. El-Maghrabi</u></p> <p>#680. "Production of hydrogen energy via ethanol steam reforming", F. A. Silva, I. Dancini-Pontes, M. V. C. Gandolfi, M. H. N. O. S. M. De-Souza, <u>N. R.C. F. Machado</u></p>	<p>#1240. "Production of gasoline and diesel like fuels from waste tire oil by catalytic pyrolysis", A. Ayanoglu, <u>R. Yumrutas</u></p> <p>#168. "Evaluation of the biogas production's yield through anaerobic digestion of coffee wastes", <u>F. Battista</u>, B. Ruggeri, D. Fino, F. Erriquens, D. Mescia</p> <p>#231. "Enhanced biogas production of low biodegradable fraction of municipal solid waste (MSW) via leachate recirculation: experimental simulation", <u>M. Di Addario</u>, B. Ruggeri, F. Chiampo</p> <p>#164. "Two-stage anaerobic digestion (AD) of organic waste market (OWM): Pretreatments and their energetic sustainability", A. C. L. Malave, <u>B. Ruggeri</u>, M. Bernardi, D. Fino</p> <p>#453. "Producing urea fertilizer from thar coal deposits in Pakistan", <u>F. A. Malik</u></p> <p>#762. "Influence of calcium on hydrogen production from wastewater in anaerobic bioreactor with a fixed structured bed (ABFSB)", <u>V. M. Carminato</u>, M. Zaiat</p>	<p>#1068. "CFD simulation of urea spray using a modified swirl-injector nozzle for NOx reduction in Diesel engines", <u>E. A. Serie</u>, F. A. Aziz</p> <p>#801. "Exergo-environmental assessment of a renewable energy based integrated system", <u>A. A. Kocer</u>, M. Ozturk</p> <p>#416. "A review and prospective study of power generation with thermoelectric mechanisms", <u>Z. Wang</u>, K. S. Gabriele</p> <p>#1164. "The effects of mass flow rate of working air/mass flow rate of product air on energy and exergy parameters of the Maisotsenko cycle", <u>S. G. Faal</u>, M. Yari, M. E. Yazdi</p> <p>#773. "Theoretical analysis of non-condensable gases effect on the adsorption properties of adsorbent porous media in thermal powered adsorption cooling systems", <u>N. Bonyadi</u>, C. Yamali, D. Baker</p> <p>#380. "Benefit and restrictions related to the application of natural gas as engine fuel for city buses", <u>M. Sasa</u>, P. Radivoje</p>	<p>#69. "Recovery of unburned carbonaceous matter (UCM) from a sugar mill bottom ash by flotation", <u>D. Katircioglu</u>, M. Ucurum</p> <p>#101. "Negative impacts of privatization on the Turkish hydropower plant construction criteria", <u>N. Ozgur</u></p> <p>#884. "Hydrogen from pyrolysis catalytic-gasification of scrap tyres", <u>I. F. Elbaba</u>, P. T. Williams</p> <p>#1002. "A Novel Catalytically Active Absorber LaFeO<sub>3</sub>-Al<sub>2</sub>O<sub>3</sub>/AlSi316 for Solar Reforming of Methane", <u>L. Sang</u>, G. Wang, H. Huang</p> <p>#134. "Acid hydrolysis of biomass to produce clean energy", <u>A. A. Nodeh</u></p> <p>#1455. "Clean power generation utilizing inductrack configuration of Halbach Array Magnets - A concept Paper", <u>S. Ali</u>, T. Mahmood</p>	<p>#1016. "Simulation of machine vision-based solar tracking system", <u>N. Jirasuwankul</u></p> <p>#1157. "Modeling of hybrid photovoltaic/thermal collector", <u>A. Mahjoubi</u></p> <p>#26. "Challenges and opportunities in hybridization of pulverized coal with concentrated solar power", <u>A. Ghobeity</u></p> <p>#1124. "Solar PV performance parameters and recommendation for optimizing performance of grid connected solar photovoltaic plant-case study", <u>A. Verma</u>, S. Singhal</p> <p>#951. "Design and installation of grid interactive solar system for the building of the ministry of energy and mineral resources", A. Hammad, S. Batayneh</p>	<p>#734. "Fabrication and characterization of Zn<sub>1-x</sub>MgxO Films for photovoltaic Application", <u>O. Gencyilmaz</u>, F. Atay, I. Akyuz</p> <p>#653. "Modification of ternary carbonates by adding NaOH/NaNO<sub>3</sub> and their improved thermal properties for solar energy storage", <u>L. Sang</u>, M. Cai, Y. Wu, C. Burda</p> <p>#361. "Electrochemical study of the cobalt-containing and non cobalt containing AB5 alloys used as negative electrodes in Ni-Mh batteries", <u>C. Khaldi</u>, J. Lamoumi, H. Mathlouthi</p> <p>#595. "Effect of partial replacement of Pt-based catalysts with Fe- and Co-", <u>A. Stoyanova</u>, M. M. Islam, G. Borisov, T. Bredow, E. Lefterova, E. Slavcheva</p> <p>#286. "Experimental investigation of the mechanical grinding effect on graphene structure", M. Munkhshur, S. Lee, T. Lee, A. M. Haque, H. Chung, <u>H. Jeong</u></p>
<b>CLOSURE</b>						
14:00						
<b>OPTIONAL SOCIAL TOURS</b>						

## Thursday - June 12, 2014

## Poster Session 6

09:00 - 13:30

- #3. "Design and analysis of a bank in Antalya by solar assisted absorption air conditioning", K. Taner
- #10. "Micro level two dimensional stress and thermal analysis anode/electrolyte interface of a solid oxide fuel cell", S. Celik, B. Ibrahimoglu, M. D. Mat, Y. Kaplan, T. N. Veziroglu
- #356. "Numerical simulation of wallboards constructive incorporated with different PCMs content solutions for passive cooling in southern of Algeria", R. Ghedamsi, N. Settou, N. Saifi, S. Rahmouni, B. Dokkar, B. Recioui
- #389. "Advanced solar still with thermal storage: A review", G. Rajasekar, M. Eswaramoorthy, G. Rajasekar, M. Eswaramoorthy, S.N. Kulkarni
- #456. "Telephony station cooling using solar and geothermal energy", B. Dokkar, N. Chennouf, N. Settou, B. Negrou, I. Labeled
- #614. "Biological hydrogen production from crude glycerol in anaerobic fluidized-bed reactor at thermophilic condition", J. D. S. Ferreira, E. L. Silva
- #622. "Biological hydrogen production from crude glycerol in anaerobic fluidized bed reactor and in expanded granular sludge bed reactor", M. Bosio, E. L. Silva
- #682. "Plasma gasification method and influence of oxidant for hydrogen production from lignites", E. S. Vural, E. Dalli, Y. Katircioglu, B. Ibrahimoglu
- #716. "The techniques used for performance prediction of vertical axis wind turbines (VAWTS)", A. M. Bofares, M. S. Elmnefi
- #795. "Printable catalyst system of sub-100 nm metal ring and metal dot arrays", S. M. Choi
- #859. "Solid oxide fuel cells based trigeneration system for hotels in Hong Kong", M. Ni
- #904. "Transparent conducting aluminum-doped ZnO thin films for solar energy applications", A. Bouloufa
- #1012. "Production of activated carbons for methane storage", M. Belhachemi
- #1059. "Effects of baffles on flow distribution in an electrostatic precipitator (ESP) of a coal based power plant", A. S. M. Savem, M. M. K. Khan, M. G. Rasul, M. T. O. Amanullah, N. M. S. Hasan
- #1064. "Electrochemical process of conditioning of the sewage sludge", A. Malika
- #1092. "Novel photocatalyst cosrxoy decorated graphene nanohybrid photocatalyst for high-efficient photocatalytic hydrogen evolution", G. Lu
- #1106. "Parametric study of a tower power plant performances for his implementation in Algeria", Y. Noureddine, A. Khellaf, K. Mohammedi
- #1109. "Nafion/SiO<sub>2</sub> composite membrane for high temperature fuel cells", N. Y. Saifi, N. Lamba
- #1112. "Solution for climate change and deficient fuel using kemiri sunan (reutealis trisperma (blanco) airy shaw)", A. Aunillah, D. Pranowo
- #1114. "GIS-based analysis of geothermal electricity production using CO<sub>2</sub> as working fluid in Algeria", A. Gouareh
- #1117. "CFD study of surface roughness effects on the aerodynamic performance of a wind turbine blade profile", M. M. S. A. Hamdy
- #1132. "Numerical study of dead-end H<sub>2</sub>/O<sub>2</sub> PEM fuel cell", M. R. Esbo
- #1165. "Neural modeling adsorption of copper, chromium, nickel and lead from aqueous solution by natural wastes", S. Rebouh, M. Bouhedda, S. Hanini, A. Djellal
- #1174. "An experimental study on drying of peanuts using indirect solar dryer", D. Mennouche, B. Bouchekima, S. Zighmi, A. Boubekri, S. Boughali, A. Maatallah
- #1179. "Sustainable technology for rural houses in Mexico", S. Arias
- #1192. "In situ simulation of MBE growth of INAS (001) using RHEED", H. Khachab, Y. Abdelkafi, A. Belghachi, M. K. Barhmi
- #1195. "The origin of high electrocatalytic activity of a novel binary modified Pt surfaces with cobalt and nickel oxides nanostructured toward formic acid oxidation", B. E. El-Anadoui
- #1200. "Prospects and analysis of hydrogen production from renewable electricity sources in Algeria", S. Rahmouni, N. Settou, B. Negrou, N. Chennouf, R. Ghedamsi
- #1203. "Use of bio accumulator in the reduction of pollution by the waste effluents of origin industrial", A. B. Amel
- #1207. "Preparation of calcium-aluminum carbonate sorbent from limestone for medium-high temperature CO<sub>2</sub> capture", K. H. Lin, C. T. Yu
- #1212. "Enhanced electrocatalysis of formic acid electro-oxidation at poly-aniline/platinum nanoparticles modified electrodes", M. G. A. Elmoghny, A. M. Mohammad, M. S. El-Deab, A. Mazhar
- #1214. "Energy transfer optimization in photovoltaic conversion by seeking the maximum power point", S. Mouhadier
- #1224. "Estimation of clear sky global solar radiation for selected stations in India", M. M. Khan
- #1263. "Thermodynamic study of the supercritical, transcritical carbon dioxide power cycles for utilization of low grade heat sources application", S. Moghanlou
- #1266. "Simulation of machine vision-based solar tracking system", N. Jirasuwankul



## Thursday - June 12, 2014

## Poster Session 6 (Continued)

09:00 - 13:30

- #1337. "Chemical oxygen demand (COD) removal from cutting oil fluid by electrocoagulation: stastical study", T. Mohamed
- #1357. "Effect of thickness on photocatalytic activity of TiO<sub>2</sub> thin films", F. Bensouici, M. Bououdina, A. Iratni, M. Toubane, R. Tala-Ighil
- #1359. "Theoretical study of hydrogen-sorption properties of boron carbides of alkali and alkali-earth metals", S.Y. Zaginaichenko, D.V. Schur, Z. A. Matysina, T. N. Veziroglu, D. A. Zaritskii
- #1370. "Three phase PV inverter-based shunt active power filter", R. Belaidi, M. Fathi, A. Haddouche, M. M. Larafi
- #1371. "Power quality improvement based on fuzzy logic controller MPPT for photovoltaic system", R. Belaidi
- #1390. "Producing electrical energy by reducing the speed of moving vehicles instead of braking", F. Zolfaghari
- #1392. "The technics of desalination water in Aalgeria", H. Aburideh, Z. Tigrine, M. Abbas, D. Ziou, I. S. Hout, R. Bellatreche, D. Belhout, Z. Belgroun, N. Kasbadji, B. Ferhat
- #1399. "Mapping functionality in socio-technical transitions: Insights from Nigeria", O. O. Osunmuyiwa, F. Biermann, A. Kalfagianni
- #1421. "Electrochemical behavior of silicon in light and dark environments in 0.5 M sulfuric acid", M. Bounoughaz, H. Boukercha, A. Khemmari, M. Allaoua, E. Salhi
- #1448. "Biosorption of pharmaceutical pollutant", H. Cherifi
- #1462. "Comparative study of the performance of photovoltaic modules of different technologies in a mediterranean climate", M. K. Ghania, M. Achour, O. Allaoua, C. Madjid
- #1469. "Studies of optical properties of the Al doped ZNO thin films prepared by sol-gel method associated with dip coating", M. Toubane, I. Aicha, F. Bensouici, A. Slimani, R.T. Ighil
- #1492. "Adsorption phenomena of nitrogen, argon, carbon monoxide on charcoial, silica gel adsorbents at different temperatures", I. Ghedjati, S. Akcha, A. Djouadi, F. Bentahar
- #1503. "Study and optimization of the energy profile of the meat industry in the Rregion of Alentejo, Portugal", P. Brito
- #1505. "An assessment of the baseload capability of solar thermal parabolic trough systems", R. Adinberg
- #1508. "Endurance test of a modified spark ignition internal combustion engine fuelled by hythane", S. Chuayboon, S. Prasertsan, K. Maliwan, P. Prasertsan
- #1523. "LNG risk analysis and control: a serious problem in Algeria's energy", M. Smaiah, L. Bahmed

**Important Remarks:**

Duration of each talk for oral presentations is as follows:

**Keynote Talks:** 45 mins, including Q&A

**Special Talks:** 30 mins, including Q&A

**Regular Talks:** 20 mins, including Q&A

Guidelines for **poster presentations** are as follows:

- Each presenter is provided with a 100 cm wide by 170 cm height poster board.
- Posters must be remained up, presented and removed according to the timetable given below.
- The presenters should also attend their poster during coffee breaks and lunch.

	Poster set up	Poster presentation	Poster removal
Morning session	08:50 - 09:00	09:00 - 13:20	13:20 - 13:30
Afternoon session	13:30 - 13:40	13:40 - 18:00	18:00 - 18:10