Programme

2nd International Conference on Energy Systems and Technologies

ICEST 2013

18-21 February 2013
Cairo, Egypt

Science Partners

Egyptian Nuclear Physics Association (ENPA)
Science and Technology Forum (STF)
Conference Chairman
Prof. Dr. M.N.H. Comsan

Conference Coordinator
Dr. S.R. Atalla

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ICEST 2013
Conference Timetable

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<td>KNR2</td>
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<td>Egypt.</td>
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<td>Museum)</td>
<td>Free Evening</td>
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Programme abbreviations:

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<th>Opening Session</th>
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ICEST 2013
Conference Programme

Monday, 18 Feb. 2013

9:00 - 10:30  OS
10:30 - 11:00  Tea/Coffee

11:00 - 13:00  Session KNR1 [77/111/25]
  Chairperson: Prof. Dr. M.R. El-Tahlawy
  1 An international outlook of innovative energy efficient designs of low carbon buildings: Essam E. Khalil [77]
  2 The technology and economics of a Combined Cycle WTE Facility at an existing Egyptian Landfill site: Robert H. Aldrich, Mahmoud Elshazly and Walter Schroeder
  3 Nuclear energy perspectives in MENA countries: M.N.H. Comsan [25]

13:00 – 14:00  Break

14:00 - 15:30  Session NET1 [116/83/36/37/53/22]
  Chairperson: Prof. Dr. T. El-Tablawy
  1 Algae energy system potential for oil production and CO2 capture in the Middle East: Ihab H. Farag [116]
  2 Risk management and pricing insurance on renewable energy projects: Keun Ock Lew [83]

15:30 - 17:00  Session GBE [32/99/59/88/69]
  Chairperson: Prof. Dr. M. Samir Abdel-Azim
  1 Welcoming the wind: The potential for urban wind turbines to reshape the built environment: Naglaa A. Megahed [32]
  2 Effects of fossil fuel extraction on Gokana environment, Ogoniland, Nigeria: Victoria C. Ibezue [99]
  3 Green building and energy saving: Mahmoud A. Hassan and Nabil M. Guirguis [59]
  4 Passive design features for low energy office building: F. Ismail, N. A. Azizan and N. M. Zainudin [88]
  5 Modern roads with green energy: Sanwal Muneer [69]

3 Solar parabolic collector assisted evaporative cooling system: V. Arora and T. Sheorey [36]
4 Electrochemical deposition and pseudocapacitive behavior in 1rea-based quasi-ionic liquid electrolytes studied with X-ray absorption spectroscopy: M-Jay Deng, K-Tzu Lu, Ch-Ch Wang, J-F Lee, J-K Chang and J-M Chen [37]
5 Challenges facing the fuel cell technology to replace combustion engines: M.Y. Mustafa and R.K. Calay [53]
6 Development of a gas-hydrate power generation system: R. Shimizu, Sh., Obara, M. Okuda and M. Kawai [22]
Fatimide Cairo*

Tuesday, 19 Feb. 2013

9:00 - 10:30  Session CET [87/50/109/117/123]
Chairperson: Prof. Dr. Tanuja Sheorey
1 Measuring of reduction of CO₂ emissions transport fuels on the example of ethanol in Poland: Piotr F. Borowski, Malgorzata Powalka, Adam Kupczyk and Michal Sikora [87]
2 Analysis of the energy output of a solid waste treatment plant in Norway with the objective of optimization: E. Román, M.Y. Mustafa and W. Sargalski [50]
3 Fabrication and testing of compressed air car: Anirudh Addala and Abburi Supriya [109]
4 Machine-to-machine smart grid for sustainable energy: Rashid A. Saeed, Rania A. Mokhtar and AwadAllah A. Tayfour [117]

10:30 - 11:00  Tea/Coffee

11:00 - 13:00  Session NET2 [78/94/68/46/98]
Chairperson: Prof. Dr. Elham Elhakim
1 An evaluation of solid oxide fuel cell for residential applications: Omar A. Sheneb and Ahmed I. Alguwiri [78]
2 Development of eco-friendly photovoltaic energy systems through “energy efficiency” technology - A roadmap and an application in Egypt and Japan: Gamal M. Dousoky and Masahito Shoyama [94]
3 Meeting future demand in the UK residential areas using superconductor technologies: Mustafa A Elsherif [68]
4 Assessing behavior of outer crowbar protection with the DFIG during the grid fault: Mohamed Ebeed, Omar Nour-eldeen and Abdulla A.E [46]
5 Assessment of evolution in LEDs lighting as energy-saving technology: Salah Alabani [98]

11:00 - 13:00  Session ESD [93/76/17/115/122]
Chairperson: Dr. Piotr F. Borowski
1 A sankey framework for tracing energy and exergy: Kamalakannan Soundararajan, Su Bin and Ho Hiang Kwee [93]
2 Electrical distribution power systems of modern civil aircrafts: Reyad Mohamed, Ahmad Eid and Mazen Abdel-Salam [76]
3 Geographical information system based energy transmission pipeline (ETP) routing for minimizing environmental risk: A case
The structural, electronic and thermal properties of Perovskite-type: Novel hydrogen storage materials: Brahim Bahloul, Abdelouahab Bentabet and Lynda Amirouche [115]

5 Wireless sensor network for smart grid communication: Rania A Mokhtar, Rashid A. Saeed and Hikma Shabana [122]

13:00 - 14:00 Break

14:00 - 15:30 Session SMC [65/114/118/2/91/24]
Chairperson: Prof. Dr. Essam Khalil
1 Evaluation of self-learning methods for predicting energy consumption: S. Vadera, J. Wu, U. Donath, A. Gomez, F. Meziane and N. Redondo [65]
2 The performance of 0.6m impulse turbine operating under bi-directional airflow: Rehil O. Abdulhadi [114]
3 Chaotic behavior of coupled pendula: Sobhy R. Atalla [118]
5 Distributed generation placement and sizing using a modified PSO for power loss reduction in radial distribution systems: H. Musa and S.S. Adamu [91]
6 Study on operation analysis of a compound energy system using orthogonal table-GA hybrid method: S. Watanabe and Sh. Obara [24]

14:00 - 15:30 Session EME [35/81/20/86/119]
Chairperson: Prof. Dr. Hameed Nezhad
1 Applying the contingent approach to public participation in nuclear policy: Yueh-Hua Lee, Chu-Ching Wang, Hsiu-chen Chuang and Chien-Chi Lin [35]
2 Strategy of adaptation as a mode of development in the contemporary companies on energy sector examples: Piotr F. Borowski [81]
3 Prospect of Iran natural gas export projects: H. Omidvar [20]
4 Technical and economic assessment of solar PV/Diesel hybrid power system for rural school electrification in Ethiopia: Zelalem Girma [86]
5 Energy: The crisis and the way-out: Heikal Bedair [119]

15:30 - 17:00 Poster Session
Chairperson: Dr. S.R. Atalla

19:00 - 22:00 Cruise on the Nile*
Wednesday, 20 Feb. 2013

9:30 - 22:00  Social and Culture Events - Full Day
Giza/Cairo*

Thursday, 21 Feb. 2013

9:00 - 10:30  Session IET [18/79/106/113/71/51]
Chairperson: Prof. Dr. H. Motaafy
1 Study on the performance of solar still used for desalination: Ehssan Nassef [18]
2 All graphene-nanoparticle composite based electrodes for dye-sensitized solar cells:
   Sung-Ryong Kim, Young-Hui Koh, In-Sik In and Ju-Won Lee [79]
3 Ba6-xBP5O20:xEu3+ phosphor systems for highly energy-efficient white LEDs: K. Park, H. Kim, K.N. Shinde and S.J. Yoon [106]
4 Nanofluids as a cooling agent for Rankine power cycle: Eman Abdel-Hakim Tora [113]
5 Biodiesel production as clean energy source from waste cooking oils: Characterization using TGA, FTIR and fuel properties:
   Nahla A. Taha, Azza El-Maghrary and H.A. Farag [71]
6 Innovative integrated marine biomass utilization: M. Aziz, T. Oda and T. Kashiwagi [51]

10:30 - 11:00  Tea/Coffee

(*) At extra charge. For more information contact Conference Treasurer
11:00 - 13:00  Session KNR2 [85/73/75/29]
   Chairperson: Prof. Dr. M.N.H. Comsan
   1 Future of the power sector: Uncertainties and opportunities: Hameed G. Nezhad [85]
   2 Water energy nexus: A strategy and roadmap: Essam E. Khalil [73]
   3 Air flow in places of worship: Essam E. Khalil [75]
   4 Energy-environment interaction: Case study of Northern Nigeria: S.I. Ladan [29]

13:00 - 14:00  Conference Lunch

14:00 - 15:30  Closing Session
   Conference Conclusions and Recommendations

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برنامج

المؤتمر الدولي الثاني لنظم وتكنولوجيات الطاقة

ICEST 2013

2013 - 21 فبراير
القاهرة - جمهورية مصر العربية