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Poster Session One

Tuesday 20th April 2010

17.30 - 19.30pm at the AXA Auditorium

Posters are separated by session and listed in alphabetical order according to the surname of the first listed author. Please note that the listed number corresponds to the poster board that authors have been allocated at the venue.

Session B3 - Energy from Earth and Ocean:

1. Energy Sources and Collaboration in the South-East of Europe

Igor Dekani
University of Zagreb

2. Huge Buffer Energy for Wind Supply

Daniele Fargion
Rome University 1, Sapienza

3. Vibration Energy Harvesting. A Review.

Luca Gammaitoni, I. Neri, H. Vocca
Universita' di Perugia

4. Energy from Continental Drift

Joseph George
Independent Researcher

5. Sulfate Zirconium Doped Mesoporous Silica Catalysts for Esterification of Oleic Acid With Methanol

Prof. Antonio Jimenez-Lopez, Mr. Jimenez-Morales Ignacio, Ms Rio-Tejero del M.Azucena, Prof Braos-Garcia Pilar, Prof Santamaria-Gonzalez Jose, Prof Maireles-Torres Pedro
Universidad de Malaga

6. Increasing the Energy Efficiency of Planetary Gear Trains for Wind Generators

Prof. (Docent) Dimitar Karaivanov
University of Chemical Technology and Metallurgy, Sofia, Bulgaria

7. Experimental Installation For Biomass Gasification With 3-Zonal Gas Generator „Gazela"

Prof. Janusz Kotowicz¹, Ph.D. Aleksander Sobolewski², M.Sc. Tomasz Iluk¹, Ph.D. Katarzyna Matuszek²
¹*Silesian University of Technology*, ²*Institute for Chemical Processing of Coal in Zabrze*

8. The Hidden Fuel Costs of Wind Generated Electricity

Cornelis Le Pair, Kees de Groot
NNV

9. High Recovery to an Unconventional Resource: Marine Biomass

Ms Nastac Maria¹, Ms Negraru Pirjol Ticuta², Ms Ghiorghiu Karina¹, Ms Balta Andreea Gabriela¹, Mrs Baba Dan¹, Mrs Negreanu Pirjol Bogdan²
¹*Association for protection the human being and environment for a sustainable development in the world_ECOM*, ²*Ovidius Uneversity Constanta*

10. Demonstration Experiment of Nano-Hydraulic Turbine System Utilizing Waterfalls and Hot-Spring Streams

Mr. Tatsuo Nakazawa¹, Mr. Hisaki Akasaki¹, Dr. Tatsuo Nakazawa¹, Dr. Eiichi Sato², Mr. Takahiro Ashizawa³, Dr. Shouichiro Iio¹, Professor Toshihiko Ikeda¹
¹*Shinshu University*, ²*Niigata Institute of Technology*, ³*Yamura Technical High School*

11. The Effects of Blending Ratio and Pyrolysis Temperature on the Yields of the Co-Pyrolysis Products of Euphorbia Rigida and Lignite

Dr. Ozlem Onay, Prof. Dr. O. Mete Kockar
Anadolu university

12. New Sources of Oil and Grease for Biodiesel Production

Mr. Ricardo Salgado¹, Mr. André Pombo¹, Mrs. Sara Durão¹, Mrs. Lisete Epifâneo¹, Mrs. Ana Mata¹, Mrs. Ana Barreiros¹, Mr. João Paulo Noronha²
¹*Instituto Politécnico de Setúbal*, ²*Universidade Nova de Lisboa*

Session C1 – Domestic, Urban and Regional

13. Power Supply for Driven White Light Emitter Diodes as Lighting Source

Roberto Baca, Gabriel Paredes, Ramon Peña
CINVESTAV

14. Thermal Rehabilitation of Buildings

Gheorghe Bacanu

15. A Smart Hydro Generation System Using Consuming Water Distributed to Houses

Mr Mohd Farriz Md Basar, Mr Hidayat Zainuddin, Mr Muhammad Sharil Yahaya, Prof. Dr. Marizan Sulaiman
Universiti Teknikal Malaysia Melaka (UTeM)

16. Use of Natural Gas and Geothermal Energy in a Combined Cycle Power Plant

Mr. Ladislav Böszörményi, Mr Gabriel Böszörményi
Technical University of Košice

17. Solar Energy Storage - Critical Success Factors for Passive Houses in Ireland

Mr Shane Colclough, Dr Philip Griffiths, Dr Mervyn Smyth
University of Ulster

18. Green Management Project

Mr Davood Daneshgar
Islamic Azad University (Yazd Branch), Member of Young Researchers Club

19. Analysis and Simulation of a 3-Phase Transformerless PV Inverter

Mr Prodromos Fetfatzis, Mr Panagiotis Kofinas, Mr Miltiadis Kallousis, Prof. Constantinos Alafodimos
Technological Educational Institute (TEI) of Piraeus

20. Thermal Insulation of Buildings with IR Barriers

Luis A. Guzman, E. Marin, A. Lanzutti, L. Fedrizzi
University of Udine

21. Agro-Energy-District a Project for the Implementation of a Globally Growing Local Energy Production System

Giovanni Mastino, Renato Cami
Consorzio Produttori Agricoli Acque Minerali Umbre - CAMU

22. Evaluation of Energy Consumption in Different Drying Methods

Ali Motevali, Saeid Minaei, Mohamad Hadi Khoshtaghaza
Tarbiat Modares

23. Economic and Environmental Comparison Between Solar Thermal And Biomass Facility for a Bioclimatic Single Family Housing Facility

Dr. Angel Sanchez¹, Dr. Santiago Urrejola¹, Dr. Angeles Cancela¹, Dr. Rocio Maceiras¹, Mr. Mario Iglesias²
¹University of Vigo, ²Energy Lab

24. Improving the Efficiency of Small Water Production Facilities

Prof. Fernando Tadeo¹, Mr. Luis Palacin¹, Prof. Cesar de Prada¹, Dr. Syam Syafie²
¹University of Valladolid, ²University Putra Malaysia

Session C2 - Supporting Technology

25. Optimal Use of Biomass to Address the Climate Change Issues: UK Perspective

Dr. Gabriel Anandarajah, Ms. Julia Tomei
University College London

26. Development of a Cryogenic Thermal Storage System Based on Phase-Change-Materials for Energy Savings in Industrial Vacuum Processes

Prof Mara Bruzzi, Prof. Ennio Carnevale, Mr. Andrea Baldi, Dr Andrea Chesi
University of Florence

27. Calculation of Underground Distribution Grids with Energy Saving Criteria

Dr. Pau Casals¹, Dr. Juan Antonio Martínez¹, Dr. Xavier Granados², Dr. Ricard Bosch¹
¹Universitat Politècnica de Catalunya (UPC), ²Institut de Ciència de Materials de Barcelona, ICMAB-CSIC

28. Higher Photoluminescence of BAMGAL100170:EU2+ Phosphors Grown with Nanoscaled MGO Films Using Atomic Layer Deposition

Byung Ho Choi¹, Hee Gyu Kim¹, Hyug Jong Kim¹, Doe Hyoung Kim¹, In Gu Kang¹, Dong Joo Kim²
¹School of Advanced Materials and Systems Engineering, Kumoh National Institute of Technology, ²School of Mechanical Engineering, Kumoh National Institute of Technology

29. Analysis of Energy Management Strategies in Grid-Connected Photovoltaic Systems with Energy Storage

Mr Chokchai Chuenwattanapraniti, Prof. Christian Glaize
University Montpellier II

30. Saving Energy in the Wheat Processing, with a New Designed Micromill

Mrs. Cristina-Anca Danciu, Mr. Danciu Ioan
Lucian Blaga University of Sibiu, Romania

31. Reversible Holographic Recording Mediums Based on Polymeric Composites and Their Using in Energy Saving Technologies

Prof. Irina Davidenko¹, Prof. Davidenko Nicolay¹, Mr Wilhelmsson Tomas², Dr. Savchenko Irina¹, Mr Pavlov Valeriy¹
¹Kiev Taras Shevchenko National University, ²AGELLIS AB Group, Sweden

32. Interaction of H2 with Aromatic System: A DFT Study

Shabaan Elroby
King Abdullaziz University

33. Energy Consumption for CO2 Capture in Power Plant by Using Membrane Technology

Katarzyna Janusz-Szymańska, Janusz Kotowicz
Silesian University of Technology

34. The Fabrication of Multilayered Hybrid Materials of Stainless Steel Composite Covered with Thin Foil for Stack Separator

Mr. soon wook Jeong¹, Dr. Sungbum Park¹, Dr. Farkhod Turaev², Mr. Sang Min Lee¹, Mr. Soo-Hoon Nam¹, Professor Soon Wook Jeong¹, Professor Sungjin Kim¹

¹Kumoh National Institute of Technology, ²Tashkent Technical University

35. Economical Feasibility of Combined Heat and Power Systems in a Retail Market Based on the Reliability Using Monte Carlo and Game Theory

Moein Manbachi¹, Amirhossein Parsaeifard¹, Mahmoodreza Haghifam²

¹Azad University of Tehran, ²Tarbiat Modares University of Tehran

36. On Using of Disposal Energy-Off Resources of Gas Enterprises of Ukraine for Generation Electric and Thermal Energy

Volodymyr Anatolievych Ogorodnyk¹, Valery Grigorievitch Gorobets², Valeriy Mykolayovich Yashchuk³

¹National Joint Storks Company of Ukraine ?NAFTOGAZ?, ²Institute of engineering thermophysjcs of NAS of Ukraine, ³National Taras Shevchenko University

37. Generation Expansion Planning of Distributed Generations in Restructured Power Market Based on Monte-Carlo Simulation and Game Theory

Amirhossein Parsaeifard¹, Moein manbachi¹, Mohammadbagher Abaee Kopae², Mahmoodreza Haghifam³

¹Azad University of Tehran, ²Tehran University, ³Tarbiat Modares University

38. An Applicable New Method for Generation Expansion Planning in Restructured Power Market Based on Game Theory and Monte-Carlo Simulation

Amirhossein Parsaeifard¹, Moein manbachi¹, Mahmoodreza Haghifam²

¹Azad University of Tehran, ²Tarbiat Modares University

39. New Sustainable Processes of Hydrogen Production from Water Mediated by Aluminium

Lluís Soler Turu, Jorge Macanás de Benito, Angélica María Candela Soto, Maria Muñoz Tapia, Juan Casado Giménez

Universitat Autònoma de Barcelona

Session C3 - Demand and Environmental Management

40. Characteristic and Source Identification of Fine Particulate Matter PM2.5 in the Urban Atmosphere of Shanghai with ICP-MS

Waheed Akram, Zhu Yan, Tan Mingguang, Bao Liangman, Zhang Guilin, Li Yan , Li Xiaolin

Shanghai Institute of Applied Physics, Chinese Academy of Sciences

41. Supported Gold Clusters as Heterogeneous Catalysts for Oxidation Reactions

Mr. Martin Amft, Natalia Skorodumova

Uppsala University

42. Determining Regional Current Carbon Dioxide Emission Based on Electricity Production and its Forecast for Turkey

S. Yeser Aslanoglu, Merih Aydinalp Koksal

Hacettepe University

43. CMB Estimation of Arsenic at Coal Fired Industrial Residential Area of Central India.

Mr. Gurugubelli Balakrishna, Dr. Shamsh Parvez

Pt.Ravishankar Shukla University

44. Utilisation of Externally Looped Membrane Bioreactor for Recycle Paper Mill Wastewater Treatment

Mr. Shuvarthi Bhattacharjee, Mr. Sudarshan Paul, Mr. Shyam Kodape

Visvesvaraya National Institute of Technology

45. Energy Scenarios for the Future: An Assessment of the Supply Sector with the Times-Italy Model

Carmelina Cosmi¹, Filomena Pietrapertosa², Monica Salvia², Senatro Di Leo³, Simona Loperte², Maria Macchiato⁴

¹National Research Council - ²National Research Council - Institute of Methodologies for Environmental Analysis CNR-IMAA, ³University of Basilicata - Department of Environmental Engineering and Physic, ⁴University Federico II - Department of Physical Sciences

46. Uptake of Heavy Metals by Miscanthus Sinensis X Giganteus Cultivated on Polluted Soils

Barbu Constantin-Horia, Camelia Sand, Petronela Pavel, Mihai Radu Pop

Lucian Blaga University of Sibiu

47. An Energy Planning Activity for the Province of Caserta (Italy)

Antonio D'Onofrio¹, PhD Carmine Lubritto¹, Prof. Biagio Morrone², PhD Antonio Petraglia¹, Doct. Carmela Vetromile¹

¹Second University of Naples - Dept. Environmental Sciences, ²Second University of Naples

48. The Exergy Dissipation: New Hypothesis of Forcing to GWE

Antonio Dumas

Università di Modena e Reggio Emilia

49. Running Carpets for Walking Town

Daniele Fargion

Rome University 1, Sapienza

50. Scientific and Technical Basis in Optical Design for Embedded Leds in Energy Saving Streetlights

Mr José Fernández-Dorado¹, Ms Esther Oteo¹, Ms Patricia Blanco¹, Mr Carles Pizarro², Mr Josep Arasa², Mr Jesús Caum², Ms Nuria Tomás²

¹SnellOptics, ²CD6-UPC

51. Online Monitoring of Nuclear Waste Storage: A Prototype

Dr. Paolo Finocchiaro¹, Dr. Massimo Barbagallo¹, Prof. Vincenzo Bellini², Dr. Marco Capogni³, Dr. Luigi Cosentino¹, Dr. Vincenzo Febraro¹, Dr. Giuseppe Greco¹, Dr. Alfio Pappalardo¹, Dr. Sergio Scire¹

52. Chemical Hydride Hydrolysis as an Efficient Source for Hydrogen Production and Storage

Dr. Paola Gison, PhD Pier Paolo Prosinì

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53. New Formulation of SCR Catalyst for Simultaneous Removal of Mercury and NO From Coal-Fired Power Plant

Sung-Won Ham¹, Hyun-Jo Hong¹, Seung-Min Lee², Jeong-Bin Lee², Moon Hyeon Kim³

¹Kyungil University, ²Korea Electric Power Research Institute, ³Daegu University

54. Development of a Visualization Tool and an Incentive System for the Reduction of Energy Consumption in Production

Mr Timm Holtermann, Mr Sven Asmus, Mr Heiko Schenuit, Mr Thomas Gries, Mrs Alwine Mohnen

RWTH Aachen University

55. Cost Estimations on Operational Protection for Workers Involved in Decommissioning Activities of the Nuclear Research Reactor VVR-S Magurele-Bucharest

Mr Iorga Ioan, Dr. Dragusin Mitica

Horia Hulubei National Institute of Physics and Nuclear Engineering - IFIN HH

56. Elaboration of the Cost Calculation Methodology for the Radwaste Generated by the Decommissioning of the VVR-S Magurele Research Reactor

Mr Iorga Ioan, Dr. Dragusin Mitica, Dr. Alexandru Pavelescu

Horia Hulubei National Institute of Physics and Nuclear Engineering - IFIN HH

57. Energetic Valorisation of Olive Mill Wastewater Impregnated on Sawdust

Dr Mejdí Jeguirim¹, Ajmia Chouchene¹, Professor Gwenaelle Trouvé¹, Alain FAVRE-REGUILLON², Gérard LE BUZIT²

¹Université de Haute Alsace, ²Conservatoire National des Arts et Métiers

58. Energy Indicators for Sustainable Development of Renewable Energy Technologies

Dimitris Karamanis

University of Ioannina

59. Formation of N2O in the Selective Reduction of NOX by NH3 over Commercial V2O5-WO3/TiO2 Catalysts

Moon Hyeon Kim¹, Tae Hoo An¹, Joo Hyun Park¹, Sung-Won Ham²

¹Daegu University, ²Kyungil University

60. Transition to Cleaner Energy in India and China: Potential Market Opportunities for European Clean Energy Industry

Mr Nanda Kumar Janardhanan

Global Data- DMV Business and Market Research

61. Synthesis and Photocatalytic Property of ZNO Nanoparticles Prepared by Spray-Pyrolysis Method

Sang Duck Lee, SANG-HUN Nam, MYOUNG-HWA Kim, YOUNG DOK Kim, JIN-HYO Boo

SungKyunKwan University

62. Bioenergy in Ukraine - Energetic and Social Aspect

Agnieszka Ludwicka, Anna Grzybek

Institute for Building Mechanization and Electrification of Agriculture

63. Carbon, Energy and Monetary Investment Model for Low Carbon Building Design

Dr. Gillian Menzies

Heriot Watt University

64. High Brightness LEDs for Residential Lighting

Dr Jim Methven, Mr Phil Pickering, Mr Nigel Hopkinson

The University of Manchester

65. Deep Desulphurization of Biogas for Molten Carbonate Fuel Cell System

Mrs Giulia Monteleone, Mr Massimo De Francesco, Mr Stefano Galli, Mrs Valentina Naticchioni

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66. Energy Consumption Reduction of Water Heater Thermal Disinfection

Ms Daniela Ocipova¹, Mrs Zuzana Vranayova¹, Mr Ondrej Sikula²

¹Technical university of Kosice, Civil Engineering Faculty, ²Brno University of Technology

67. Evaluating Energy Balance Sheet on Cucumber Farms in Darre Shahre City

Hesam Pashmi, Naser Hosseini

Islamic Azad University of Khoy

68. BECCS - Biomass Energy with CO2 Capture and Storage: A Carbon Negative Promising Climate Change Mitigation Technology Towards a Low Carbon Future

Mr. Diogo Zaverucha Pinheiro, Mr. Felipe Cunha, Mr. Anthony Credo

Tamboro Sustainable Systemic Solutions

69. Necessity of LCA of Biodiesel for Sustainability

Mr. Anshul Singla

Delhi Technological University

70. Proper Funded - Well Prepared for Research and Innovation

Dr. Piotr Swiatek¹, Mr. Salvatore Angilletta²

¹FP7 National Contact Point Energy, PTJ, Research Centre Juelich, ²EU-Bureau of the German Federal Ministry of Education and Research

71. Large Global Carbon Dioxide Model for Different Landscapes

Prof. Francisco Torrens¹, Dr. Gloria Castellano²

¹Universitat de Valencia, ²Universidad Catolica de Valencia

72. Multicriteria Analysis of Energy Performance in Slovak Building Environmental Assessment System

Mrs. Silvia Vilcekova, Mrs. Eva Kridlova Burdova, Mrs. Ingrid Senitkova

Technical University of Kosice

73. Towards an Integrated Platform for Planning Post Carbon Cities

Dr. Yangang Xing, Phillip Griffiths, Neil Hewitt

Ulster University

74. Provincial Level Data Acquisition and Management Information System for Cogeneration Heat Power Plant, a Chinese Practice

Sr. Jianmin Zhang¹, Chief, Guangzhong Wu², Chief Chenlai Zhang³, Sr Yunlei Zhang³, Sr Xiaobu Yuan³, Sr Zhenbin Zhan⁴, Sr Zhimin WU³

¹Hangzhou Dianzi University, ²Zhejiang Provincial Economic & Information Committee, ³Zhejiang Provincial Electric Power Company, ⁴Zhejiang Electric Power Dispatching Center

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