



International Conference on Energy and Environment

Taj Chandigarh, Chandigarh INDIA
March 19-21, 2009

Conference Schedule

Grand Ballroom Ground Floor	March 19, 2009	08:00 am - 10:00 am
Registration		

Grand Ballroom Ground Floor	March 19, 2009	10:00 am - 11:30 am
Inaugural Session		
WELCOME ADDRESS	Prof. Pankaj Chandna, <i>Conference Chair, EnviroEnergy2009</i>	
THEME ADDRESS	Padma Shri Mr. Rakesh Bakshi, <i>MD, RRB Energy Ltd., INDIA</i>	
ADDRESS BY GUEST OF HONOUR	Mr. RV Shahi, <i>Former Secretary (Power) Govt. of India, INDIA</i>	
ADDRESS BY GUEST OF HONOUR	Hon'ble Tim Yeo, <i>Member of Parliament, House of Commons, UK</i>	
PRESIDENTIAL ADDRESS	Dr. Prof. MN Bandyopadhyay, <i>Director, NIT Kurukshetra, INDIA</i>	
INAUGURAL ADDRESS BY CHIEF GUEST	<i>His Excellency Dr. AR Kidwai, Governor Haryana State</i>	
VOTE OF THANKS	Prof. Surinder Deswal, <i>Convener, EnviroEnergy2009</i>	

Grand Ballroom Banquet Area	March 19, 2009	11:30 am - 12:00 noon
Tea		

Plenary Sessions

Grand Ballroom Ground Floor	March 19, 2009	12:00 noon - 01:30 pm
Plenary Session I		
SPEAKERS		
Prof. RP Bajpai, <i>Vice-Chancellor, Kurukshetra University Kurukshetra, INDIA</i>		
Dr. Ajay Mathur, <i>Director General, Bureau of Energy Efficiency, Ministry of Power, Government of India, INDIA</i>		
Prof. Robert Davis, <i>Bertucci Distinguished Professor, Carnegie Mellon University, Pittsburgh, USA</i>		

Grand Ballroom Banquet Area	March 19, 2009	01:30 pm - 02:15 pm
Lunch		

Grand Ballroom Ground Floor	March 19, 2009	02:15 pm - 03:45 pm
Plenary Session II		
SPEAKERS		
Er. HS Chahal, <i>Vice-Chancellor, DBCRUST Murthal, Sonapat, INDIA</i>		
Prof. Krishna, Shenai, <i>The University of Toledo, Toledo, USA</i>		
Mr. Pavan Kumar, <i>Managing Director, Altair Engineering India Pvt. Ltd. Bangalore, INDIA</i>		

Grand Ballroom Banquet Area	March 19, 2009	03:45 pm - 04:00 pm
Tea		

Grand Ballroom Ground Floor	March 19, 2009	04:00 pm - 05:30 pm
Plenary Session III		
SPEAKERS		
Prof. IK Bhat, <i>Director, National Institute of Technology Hamirpur INDIA</i>		
Prof. Shaofeng JIA, <i>Director, Chinese Academy of Sciences, Beijing, CHINA</i>		
Prof. Zhengming Zhao, <i>Tsinghua University, Beijing, CHINA</i>		

Technical Sessions

Improved Biogas Plant- An Environment Friendly Renewable Energy <i>Ashok Kumar Khan, Aritra Khan</i> The Impact of Transportation Costs on the Profitability of Heat and Power Generation with Wood Products <i>Javier Parrilla, Wolf Fichtner</i>

Grand Ballroom [Part-I] Ground Floor	March 20, 2009	09:00 am - 11:00 am
Technical Session 1 [Environmental Pollution & Management - I]		
SESSION CHAIR	Dr. GG Pandit , Head, EMAS, EAD, Bhabha Atomic Research Centre, INDIA	
SESSION CONVENER	Dr. PJ Philip , Professor, NIT Kurukshetra, INDIA	
SPEAKERS		
Characterisation of Atmospheric Particulate Matter using PIXE Technique <i>P Kothai, P Prathibha, IV Saradhi, GG Pandit</i>		
Temperature Variation over Dhahran, Saudi Arabia, (1970 to 2006) <i>Shafiqur Rehman</i>		
Performance Comparison of ANN and GM Models for Predicting Vehicle Emitted Suspended Particulates <i>BK Singh, AK Singh</i>		
Calculation of Equilibrium Flame Temperature and Composition for Gaseous Fuels Combustion Using the Minimization of Gibb's Free Energy Method <i>Ashkan Zolfaghari Sharak, Farshad Farshchi Tabrizi</i>		
Urban Air Pollution: Application of Time Series Analysis - A Case Study <i>L Seetharam, L Udaya Simha</i>		
A New Perspective about CO2 Capture in Fossil-fueled Power Plants <i>MK Mondal</i>		
Replacement of Open-Cycle Gas Turbines to Combined-Cycle in the Natural-Gas-Fired Power Plant and its Impact on Ambient NOx Quality <i>Sharad Gokhale</i>		
Chemical Characterization of Submicron Aerosol in Kanpur Region: a Source Apportionment Study <i>Abhishek Chakraborty, Tarun Gupta</i>		
Measurements of Air Quality around different Open Source Areas in USA <i>Alfred J Lawrence, Grant RH, MT Boehm, AJ Heber, JM Wolf, SD Cortus, BW Bogan, CA Diehl</i>		
SOX / NOX Impact and its Removal in Coal Based Thermal Power Plants <i>Sanjeev Garg, Vanita Garg</i>		
Environmental Monitoring at Selected Petrol Pumps of Ahmedabad with Respect to Benzene, Toluene and Xylene (BTEX) <i>Rekha Kashyap, NM Desai, PG Shah, GM Patel, JA Shah, KR Dabhi, MM Mansuri</i>		
Comparative Emission Analysis of Gasoline/LPG Automotive Bifuel Engine <i>RR Saraf, SS Thipse, PK Saxena</i>		
Association of Polycyclic Aromatic Hydrocarbons (PAHs) with different particle sizes in ambient air of Hisar city and the Health Aspects <i>CP Kaushik, Parmila Sangwan, AK Haritash</i>		
Modeling and Prediction of Air Pollution around Adyar in Chennai City using Industrial Source Complex (ISC) <i>R Vijay Raghavan, Ajay Bansal</i>		

Grand Ballroom [Part-II] Ground Floor	March 20, 2009	09:00 am - 11:00 am
Technical Session 2 [Renewable Energy Sources - I]		
SESSION CHAIR	RRB Energy Ltd., INDIA	
SESSION CONVENER	Dr. Baldev Setia , Professor, NIT Kurukshetra, INDIA	
SPEAKERS		
Wind Energy for Water Pumping in Rural Areas in Sudan <i>Abdeen Mustafa Omer</i>		
Revival of the Modern Wing-Sails for the Propulsion of Commercial Ships <i>Kunal Ghosh, Pravesh Chandra Shukla</i>		
Analysis of Long-term Energy Option in Offshore Wind: An Investigation of Environmental and Techno- Economic Feasibility <i>Rahul Kumar, Manish Kumar, Surinder Deswal</i>		
Functional and Strength Design of One MW Wind Turbine Blade <i>Kale Sandip Achutrao</i>		
Ride-through Capability of Grid Interfaced Variable Speed Driven PMSG for Wind Energy Conversion Systems <i>Dinesh Kumar Jain, KS Sandhu, Rajveer Mittal</i>		
Small Hydro Power Technology <i>SK Singal, Varun</i>		
Environmental Upgradation due to NHPC's Hydropower Projects <i>Usha Bhatt, Shahid Ali Khan</i>		
Energy Generation Potential of Dairy Effluent – A Case Study of Vidya Dairy <i>Himali Desai, GP Nagori, Samir Vahora</i>		
Enzymatic Saccharification of Saccharum Spontaneum for Bioethanol Production <i>Gupta Priti</i>		
Prospects of Biomass Resources for Ohio's Clean and Sustainable Energy Future <i>Bibhakar Shakya, Fred Hiltzhusen</i>		
Is Botryococcus Braunii a Slow Growing Organism <i>R Rengasamy, V Ashok Kumar, Venkadesh</i>		

Terrace Hall First Floor	March 20, 2009	09:00 am - 11:00 am
Technical Session 3 [Climate Change and Global Warming]		
SESSION CHAIR	Prof. Alexander Galashev , Institute of Industrial Ecology of Russian Academy of Sciences, RUSSIA	
SESSION CONVENER	Dr. A Swarup , Professor, NIT Kurukshetra, INDIA	
SPEAKERS		
Computer study of Cluster Mechanism of Anti-greenhouse Effect <i>Alexander Galashev</i>		
AI Hadaf Initiative for Development of Libyan Adaptation Plan for Oil & Gas Industry to Combat Impact of Climate Change <i>Abderrauf F Elhabroush, SP Bindra</i>		
Indigenous Knowledge and Technology for Climate Change Adaptation and Mitigation in Developing Countries <i>Durgadas Mukhopadhyay</i>		
Climate Change and Human Health-Focus on Malaria in Delhi <i>Subuddhi Banthia</i>		
Paleoclimate Reconstruction during Pabdeh, Gurpl, Kazhdumi and Gadvan Formations (Cretaceous-Tertiary) based on Clay Mineral Distribution <i>Bahman Soleimani</i>		
Combating Climate Change : Sectoral Response, Adaptation and Energy Options for Sustainable Development <i>Rahul Kumar, Surinder Deswal</i>		
Coalbed Methane: A Source of Environmental Friendly Energy <i>Harendra Singh</i>		
Sequestration and Storage of CO2 for Climate Recovery <i>Surjit Singh Katoch, I K Bhat, Varun</i>		
Climate Change and Competitiveness In SIDS (Particularly the Impact upon Tourism Competitiveness) <i>Keith Nurse, Keron Niles, Denyse Dookie</i>		
Impacts of Climate Change under the Threat of Global Warming for an Agricultural Watershed of the Kangsabati River <i>Sujana Dhar1, Asis Mazumdar</i>		
Impact of climate Change on Food Security of India <i>Anita Chaudhary, P K Aggarwal</i>		
Atmospheric Stability and Effects of Meteorological Parameters on Plume Dispersion: A Review <i>Sumit Tripathi1, CB Majumder</i>		
Experimental Investigation on Evaporative Cooler with De-humidifier <i>Manoj Arya1, Anoop Arya2, SPS Rajput</i>		
Attenuation of Nitrous oxide from Agricultural Fields <i>Larisha Tyagi</i>		

March 20, 2009		11:00 am - 11:30 am
Tea		

Grand Ballroom [Part-I] Ground Floor	March 20, 2009	11:30 am - 01:30 pm
Technical Session 4 [Environmental Pollution & Management - II]		
SESSION CHAIR	Dr. (Mrs.) Somjai Karnchanawong , Chiang Mai University, THAILAND	
SESSION CONVENER	Dr. CP Kaushik , Professor, GJUST Hisar, INDIA	
SPEAKERS		
Leachate Generation from Landfill Lysimeter using Different Types of Soil Cover <i>Somjai Karnchanawong, Parichart Yongpaisalpop</i>		
A Novel Wireless Soil Moisture Sensor <i>Premchand Boyapati, Krishna Shenai</i>		
Soil Properties Improvement by Utilization of Waste Material (Marble Slurry) <i>Amit Vishwakarma, Rakesh Rajput</i>		
Short-term Accumulative Signatures of Heavy Metals (Co, Cd and Pb) in River Bed Sediments, Chitgar Industrial Area, Tehran, Iran <i>Mohammad Hossein Sayadi, Najmeh Shabani</i>		
Risk Assessment of Carbofuran in Paddy Field Agroecosystem using Earthworm as Bioindicator <i>Smeeta Panda, Sanjat K Sahu</i>		
Field Evaluation of Nitrogen Sources and Levels on the Seed Corn in North of Iran <i>Mohammad Hossein Ansari, Ali hosseini, Hadi asadi rahmani, Mehrab yadegari</i>		
Enrichment of Cr, Mn, Ni and Zn in Surface Soil <i>Gitimoni Deka, Krishna G Bhattacharyya</i>		
A Novel Wireless Soil Electrical Conductivity Sensor <i>Premchand Boyapati, Krishna Shenai</i>		
Chloride Transport from Landfills <i>Bharat Jhammani, SK Singh</i>		

Site Selection of Suitable Sites for Municipal Solid Waste in Arak County (Iran) by GIS
Samira Ghiasi, S Masod Monavari, Shahram Momeni Araghi, Golbagh Ghiasi
 Factor Affecting the Composting
SR Bhosale, PH Sawant, P Shrivastav
 Geosynthetic Lining System for Modern Waste Facilities
Hermann Ng HB, B Vidyaranya, V Ravikumar
 Decentralized Composting of MSW: Concept of Ecoparks. A Study with respect to Composting of MSW of Tirupati
P Lakshmi Narayana Prasad, J Karthikeyan, RC Srivastava
 Public Attitude towards Solid Waste Management - An Empirical Analysis
Rajni Kapoor
 Recycling for Sustainability: Plant Growth Media from Coal Combustion Products, Biosolids and Compost
Sougata Bardhan, Liming Chen, Warren A Dick

Order Reduction of Linear Time Invariant Systems using Hurwitz Polynomial Approximation and Indirect-method
Shiv Kumar Tomar, Rajendra Prasad
 Short Term Load Forecasting by a New Feature Selection Algorithm for Electricity Market
Vahid Khatibi
 Multi-objective Evolutionary Programming based Design of PSS, SVC, and TCSC for Transient Stability Improvement
TR Jyothsna, K Vaisakh
 ART2 and Wavelet Transform based Approach for Power System Fault Classification
J Upendar, Chandra Prakesh Gupta, Girish Kumar Singh
 HVDC Fault Diagnosis and Location using Artificial Neural Networks
Pannala Krishna Murthy, J Amarnath, S Kamakshiah, B P Singh
 Particle Swarm with Differentially Perturbed Velocity (PSO-DV) Hybrid Algorithm for Optimal Power Flow Solution
K Vaisakh, LR Srinivas
 Application of Radial Basis Function for MPPT
H Ravishankar Kamath, Aditya Kumar, Devi Prasad Mishra

Grand Ballroom [Part-II] Ground Floor **March 20, 2009** **11:30 am - 01:30 pm**

Technical Session 5
[Renewable Energy Sources - II]

SESSION CHAIR *Dr. JS Rao, Chief Science Officer, Altair Engineering Pvt. Ltd., INDIA.*
SESSION CONVENER *Dr. Anoop Kumar, Professor, NIT Hamirpur, INDIA*
SPEAKERS
 Fermentation
JS Rao
 Solar Power Generation using SPS and Wireless Power Transmission
S Sheik Mohammed, K Ramasamy
 Heat Transfer and Friction Factor Correlation for Packed Bed Solar Air Heater for a Low Porosity System
NS Thakur
 A Feasibility Study of Solar Thermoelectric Hybrid Power Generation
Eswaramoorthy M, S Shanmugam
 Design and Fabrication of Solar Energy Storage Unit
Amit Sarda, Kawal Lal Kurrey, Milan Motta
 Design, Construction and Performance Study of Photovoltaic Integrated Forced Flow Solar Dryer
Arun Kumar Shukla, Shravan Kumar Vishwakarma
 Nano Crystalline Solar Cell - an Approaching Renewable Source of Energy
SC Varma, Vivek Garg
 Optimization of Textured Surface for Large Area Monocrystalline Industrial High Efficiency Silicon Solar Cell by Scanning Electron Microscopic Study
PK Basu, Apoorva Jain, Sarita Kamat, Sanchit Singhal, Hrishikesh Dhasmana
 Energy Conservation Studies of a Vapour-compression and Liquid Desiccant Hybrid Solar Space-conditioning System for Hot and Humid Climates
Yogender Kumar Yadav
 Solar Power from LEO
Andrew Meulenber, Rahul Suresh, Shivram Ramanathan, Karthik Balaji PS
 Solar Thermal Energy for Industrial Process Heat Applications – An Approach to Parabolic Dish Concentrator Utilization
P Rajamohan, K Ramanathan, RV Jeba Rajasekhar, N Sankarasubramanian
 Three-dimensional Analytical Analysis of Proton Exchange Membrane Fuel Cell
M Kalbasi, M Zardoshti
 Experimental Study on Performances Characteristics and Power Optimization of Low Energy Nuclear Reactors
MV Aditya Nag, D Pavan Kumar, V Raj Kumar Goud, Subash M
 Synthesis, Characterization and Photocatalytic Hydrogen Production of Metal Doped CdS Tubular Tower under Visible Light Irradiation
M Muruganandham, Yoshihumi Kusumoto

March 20, 2009 **01:30 pm - 02:15 pm**

Lunch

Grand Ballroom [Part-I] Ground Floor **March 20, 2009** **02:15 pm - 03:45 pm**

Technical Session 7
[Environmental Pollution & Management - III]

SESSION CHAIR *Dr K M Pandey, Professor, NIT Silchar, INDIA*
SESSION CONVENER *Dr. P J Philip, Professor, NIT Kurukshetra, INDIA*
SPEAKERS
 Review on Noise Pollution from Internal Combustion Engine
Subodh Deb Barma, KM Pandey, U Kumar
 Impacts of the Traffic Noise along a National Highway -17 on the Quality of Life
Shrihari S, Mityunjay
 Biodegradation of Chlorophenols under Aerobic and Anaerobic Conditions: Influence of Chlorine Atom Position
Upendra D Patel, Sumathi Suresh
 Treating Paper and Pulp Mill Effluent through Vermiculite Clay Mineral Barrier (VCMB) System
RM Jayabalakrishnan, S Mahimairaja, C Udayasoorian
 Assessment of Water Quality Index (WQI) for Monitoring Pollution of River Panchganga at Ichalkaranji
MB Chougule, AI Wasif
 Compact Tanning Process – an Energy Efficient Greener Alternative
Goutam Mukherjee, Pratap Chandra Roy, Biswajit Debnath, Chanchal Mondal
 Chemical Degradation of Dieldrin using Ferric Sulfide and Iron Powder
Junko Hara, Yoshishige Kawabe, Takeshi Komai
 Dissolved Sulfides Removal in Wastewater Collection Networks Kuala Lumpur- Malaysia
Shahram Morteza Nia, Faridah Othman
 Chemical Pretreatment of Dairy Plant Effluent
Anna Joseph, PC Sabumon
 Adsorptive Removal of Vapors of Toxic Sulfur Compounds using Activated Carbons
Meenakshi Goyal, Rashmi Dhawan
 Effect of GNC Implementation on Ambient Air Quality: The Case of Kanpur City (India)
Devesh K Sharma, Pranveer S Satvat, C Bala Murali Krishna
 Household Energy, Indoor Air Pollution and Health: A Case Study in Rural Areas of West Bengal, India
Bijaya Kumar Padhi, Rupak Ghosh, Pratap Kumar Padhy

Terrace Hall First Floor **March 20, 2009** **11:30 am - 01:30 pm**

Technical Session 6
[Computational Techniques]

SESSION CHAIR *Prof. Vijay Devabhaktuni, University of Toledo, USA*
SESSION CONVENER *Dr. MK Nagaraj, Professor, NITK Surathkal, INDIA*
SPEAKERS
 A New Microcontroller-based MPPT Algorithm for Photovoltaic Applications
Ahmad Zbeeb, Vijay Devabhaktuni, Abdel Sebak, Laxmikant Maheshwari
 Intelligent Control Technique for STATCOM using Cascaded Multilevel Inverter
C Christopher Asir Rajan, D Leena Earnestine
 Multi-area Power Generation Dispatch using Evolutionary Algorithms
S Chitra Selvi, RP Kumudini Devi, C Christopher Asir Rajan
 Swarm Intelligence based Zonal Congestion Management
E Muneender, DM Vinod Kumar
 Probabilistic Inhalation Risk Assessment due to Radioactivity Released from Coal-fired Thermal Power Plant
SK Sahu, RC Bhangare, PY Ajmal, GG Pandit
 Neural Network Approach for Measuring Instant Total Solar Radiation
S Akbari, K Mahdavian, H Hajkarami, AA Alemrajabi
 How to Calculate Accurately the Mean Concentrations of Chemical Contaminants for Left Censored Environmental Data Sets
Brij Kumar, P C Verma and A G Hegde

Grand Ballroom [Part-II] Ground Floor **March 20, 2009** **02:15 pm - 03:45 pm**

Technical Session 8
[Renewable Energy Sources - III]

SESSION CHAIR *Mr. R K Sikri, NTPC, INDIA*
SESSION CONVENER *Dr. Baldev Setia, Professor, NIT Kurukshetra, INDIA*
SPEAKERS
 Turbohaft Engines Performance Optimization Using Multi-Objective Genetic Algorithm
Said Farahat, SM Hoseini Sarvari, E Khorasani Nejad
 A Renewable Energy Technique & Domestic Equipment for Farmers
Swati Dindorkar, Dileep Mahalle, CN Gangde
 Rice Straw (Lignocellulosic biomass) a Novel Substrate for Cellulase Production
NR Bishnoi, Rajesh Singh, Rajender Kumar, Kiran Bishnoi, Divya Bhatia
 Distributed Generator based Shunt Active Power Filter for Loss Minimization
Satish Kumar Injeti, Srinivasa Reddy Alla, Y Butch Raju
 Analysis of Self-Excited Induction Generator under Unbalanced Conditions
Yatender Chaturvedi, KS Sandhu
 Phoenix-E-Gen: Efficient Energy Storage & Energy Generation Technology
Nakul Gupta

Experimental Investigation to Evaluate the Performance of Desiccant Air-Conditioning System in India
V Mittal, KS Kasana
 India's Policy Approach towards Renewable Energy Development: A State Level Analysis
Neha Pahuja
 Isotopic Effects using for Exploration of Coal, Ore, Oil and Gas Deposits
BK Pal, P Nirlipta Nayak
 Economical Storage of Natural Gas
B Chandragupthan, Girish Babu Nounchi
 An Inclusive Study of Inclusion Compounds: Gas Hydrates
B Chandragupthan

Bioleaching and Speciation of Heavy Metals in Sewage Sludge
Ashish Pathak, MG Dastidar, TR Sreekrishnan
 Modified Fly Ash for the Removal of Some Metal Ions from Water System
Deepak Pathania, N.C. Kothiyal
 Aquatic Microphyte Azolla for Nutrient Removal from Wastewaters in Constructed Wetlands
Anju Arora
 Diversity in Behavior of Microbial Isolates for Cr (VI) Resistance and Removal
Shweta Sharma, Anushree Malik, Santosh Satya
 Conversion of Bagasse Fly Ash into Zeolitic Material for Exclusion of Organic Pollutant
Bhavna A Shah, Ritesh V Tailor, Ajay V Shah
 Aerobic Biodegradation and Adsorption of Industrial Sludge Containing Malachite Green by Aerobic Granule in Sequential Batch Reactor
Pijush Kanti Mondal1, Rais Ahmad

Terrace Hall First Floor **March 20, 2009** **02:15 pm - 03:45 pm**

Grand Ballroom [Part-II] Ground Floor **March 20, 2009** **04:00 pm - 05:30 pm**

Technical Session 9
[Sustainable Development - I]

Technical Session 11
[Renewable Energy Sources - IV]

SESSION CHAIR *Prof. Nadia Ghrab, National School for Engineers in Tunis, TUNISIA*
SESSION CONVENER *Dr. A Swarup, Professor, NIT Kurukshetra, INDIA*
SPEAKERS
 Interdisciplinary Research on Energy: a Necessary Approach for Sustainable Development
Ghrab Nadia
 An Integrated Solar Energy Driven Concept for Agriculture in Rural India: Case Study
Vijay Devabhaktuni, Laxmikant Maheshwari, Vijay Sharma, Krishna Shenai
 Rapid Environmental Impact Assessment for Mixed Development Construction Project- a Case Study
KR Sree Harsha, L Udaya Simha
 Sustainable Innovation: On the Protection of Biodiversity Through Patent Law
Jerzy Koopman
 Energy Efficient Architecture
Surinder Bahga
 Effects of Mycorrhiza and Zinc on Some Agronomic Traits and Ear Characteristics in Maize (KSC 704) under Drought Stress
Nour Ali Sajedi, Hamid Madani, Abdollah Sajedi
 Microbial Activity and Ruminal Methanogenesis as Affected by Plant Secondary Metabolites in Different Plant Extracts
S K Sirohi, Neha Pandey, Navneet Goel, B Singh, Madhu Mohini, Poonam Pandey, PP Chaudhry
 The effect of Sulphur and Thiobacillus on nutrient availability, vegetative growth and essence production in lemon balm (*Melissa officinalis* L.)
Mehrab Yadegari, Rahim Barzegar, Ramin Iranipour
 Meeting the Energy Challenge for Sustainable Development of Developing Countries
SP Bindra, Rajab Hokoma
 An Analysis of the Causes of Land and Environmental Degradation in Communal and Resettled Agricultural Areas of Zimbabwe
Edward Mutandwa, Christopher Gadzirayi
 Effects of Dual Inoculation of Azotobacter and Mycorrhiza with Nitrogen and Phosphorus Levels on Yield and Yield Components of Spring Safflower
Mohammad Mirzakhani, MR Ardakani, A Aeene band, AH . Shirani rad
 Kinematics of Concurrent Dyeing and Finishing- A Critical Study
Arijit Chakraborty1, Chakradhar Datta

SESSION CHAIR *Dr. Seni Karnchanawong, Chiang Mai University, THAILAND*
SESSION CONVENER *Dr. CP Kaushik, Professor, GJUST Hisar, INDIA*
SPEAKERS
 Effects of Upflow Liquid Velocity on Performance of Expanded Granular Sludge Bed (EGSB) System
Seni Karnchanawong, Wachara Phajee
 Spatial Assessment of Crop Residue Biomass as an Alternate Source of Thermal Energy for Tea Processing in Assam, India
Debendra Chandra Baruah, Moonmoon Hlloidhari, Bandana Singha, Dipal Baruah
 Production of Cellulases by *Aspergillus Heteromorphus* from Wheat Straw Under Submerged Fermentation
Namita Singh, Anita Singh, Narsi R Bishnoi
 Experimental Investigations on Four cylinders, Four stroke (FIAT) Petrol Engine Test Rig Using Ethanol Blends
Ajay V Kolhe, Yashwant M Jibhkate
 Anaerobic Digestion of Household Organic Waste at High Solid Content - A Potential Energy Resource
Madhuri Narra, G Nagori, Smruti Pushalkar
 Kinetic Parameters of Heterogeneously Catalyzed Transesterification of Cottonseed Oil to Biodiesel
N Jaya, K Ethirajulu, S Sundar, C Elanchelian
 Moisture Effect on Biomassand Gasification Technology
Anitha GS, N Ramarao
 Biogas Potentiality of Agro-wastes *Jatropha* Fruit Coat
Dhanya MS, Navindu Gupta, HC Joshi, Lata
 Sophorolipids Production by *Candida Bombicola* using Synthetic Dairy Wastewaters
Achlesh Davery, Kannan Pakshirajan, P Sangeetha
 Biobutanol: a Viable Gasoline Substitute through Abe Fermentation
Amrita Ranjan, Vijayanand S. Moholkar
 SWOT Analysis for Municipal Solid Waste Management System in Asian Developing Countries
Anupam Khajuria, Yugo Yamamoto, Tohru Morioka
 Treatment of Biowaste (Generated in Biodiesel Process) - A new Strategy for Green Environment and Horticulture Crop
Shivani Chaturvedi, Santosh Satya, SK Tiwari

March 20, 2009 **03:45 pm - 04:00 pm**

Terrace Hall First Floor **March 20, 2009** **04:00 pm - 05:30 pm**

Tea

Technical Session 12
[Energy Policy, Planning & Management - I]

Grand Ballroom [Part-I] Ground Floor **March 20, 2009** **04:00 pm - 05:30 pm**

Technical Session 10
[Environmental Pollution & Management - IV]

SESSION CHAIR *Dr. Siamak Boudaghpour, Islamic Azad University, South Branch, Tehran, IRAN*
SESSION CONVENER *Dr. Anoop Kumar, Professor, NIT Hamirpur, INDIA*
SPEAKERS
 Environmental Pollutions In Persian Gulf
Siamak Boudaghpour
 Rapid Determination of Biochemical Oxygen Demand
Mayur Milan Kale1, Indu Mehrotra
 Treatment of Electroplating Wastewater by Adsorption Using Activated Charcoal
Arshad Husain, Iram Javed, MM Ashiha
 Septage Contamination in Dug Wells and Remediation Using Coir Geotextile Attached Media Biofilters
Gopan Mukkulath, Santosh G Thampi
 Prevention of Lake Eutrophication by Nitrate (NO₃) Removal Using Sequencing Batch Reactor
RC Vaishya, Ashish Saxena, RK Arora
 Studies in Environmental Pollution: Absorption of Heavy Metal by Some Vegetable Plant Parts from Polluted Irrigation Canal Water and River Water at Yamuna Nagar
Gulab Singh Narwal

SESSION CHAIR *Mr. Narinderpal S Sood, President, Energy Asset Development Inc, Des Plaines, IL., USA*
SESSION CONVENER *Dr. Parthapratim Gupta, Professor, NIT Durgapur, INDIA*
SPEAKERS
 Getting More out of Existing Power Plants
Narinderpal S Sood
 Profit based Unit Commitment by Combined Ga-Pso Algorithm
M Sudhakaran
 Analysis of Embedded Controller based Maximum Power Point Tracking Using Adaptive Fuzzy Logic Control For Photovoltaic Systems
B Krishna kumar, G Nithyanandam
 Industrial DSM for Indian Power Sector
Mahendra Rane, Dhruv Chhabra, Rangan Banerjee
 Nuclear Fusion Path to Have a Long-Term Word Energy and Global Climate Stability
Heydar Izadneshan
 Energy Efficiency and Building Environment
Abdeen Mustafa Omer

Quality Management System at Libyan Petroleum Institute: Meeting the Challenge
Mufta Salih, SP Bindra
 Negative Externalities and Electricity Prices: Exploring the Full Social Costs of Conventional, Renewable, and Nuclear Power Sources
Benjamin K Sovacool
 Chopping off Peak Load Between Similar Group States – Using DLS Technique
Anindam Kumar Sil, NK Deb, Ashok Kumar Maitra
 Operation & Maintenance of a Wind Farm Through Wireless SCADA System
Zia ul Haq Kohli

Remote Sensing and GIS Based Sustainable Land Resources Development Plan in Parts of Mahendergarh District, Haryana (India)
BS Chaudhary
 The Survey of Birds Fauna of Khoshyeylagh Wildlife Refuge for Preparing Distribution Maps of Indicator Species with the Aid of GIS
Hamid Reza Reihanian, Armaghan Makvandi
 Computer Supported System for Hydro Ecological and Hydraulic Engineering Monitoring of Aral Sea Basin on the Basis of GIS-Technologies
Nasrulin AB
 Hybrid Multi-level (HML) Voltage Source Inverter (VSI) based Static Synchronous Series Compensator (SSSC) to Improve Torsional Damping
Chetan Kotwal, GN Pillai, HO Gupta
 A Novel Approach for Discrimination of Power Transformers Internal Faults from Inrush Currents using Wavelet Transform
S Sendilkumar, BL Mathur, Joseph Henry
 Artificial Neural Network Based Modelling of Evaporation Losses in Reservoirs
Surinder Deswal, Mahesh Pal, Baldev Setia
 Soft Computing approaches for Prediction of Indian Summer Monsoon Rainfall
Ahmad Banakar1, Mohamad Fazle Azeem
 Determination and Classification of the Geographical Domain of Iranian Deserts (Case Study: Khorassan Province Deserts)
Mohamad Taghi Kashki, Mohamad Khosroshahi

Grand Ballroom [Part-I] Ground Floor	March 21, 2009	09:00 am - 11:00 am
Technical Session 13 [Environmental Pollution & Management - V]		
SESSION CHAIR	<i>Ministry of Water Resources, Government of India, INDIA</i>	
SESSION CONVENER	Dr. A Swarup , Professor, NIT Kurukshetra, INDIA	
SPEAKERS	Comparison Between Amine Base Polymer Aniline Formaldehyde Condensate and Polyaniline on Removal of Toxic Hexavalent Chromium <i>Potsangbam Albino Kumar, Saswati Chakraborty, Manabendra Ray</i> Studies on the Biodegradation of Azo Dyes by White Rot Fungi <i>Phlebia radiata</i> <i>Chhavi Rani, Asim Kumar Jana, Ajay Bansal</i> Household Water Treatment using Metal Oxide/Hydroxide-Coated Sand <i>M Mansoor Ahammed, V Meera</i> Sorption of Cadmium from Aqueous Solution by Sodium Hydroxide Pretreated Rice Husk <i>Upendra Kumar</i> Zero Effluent Discharge with Solar Photocatalytic Detoxification in Dairy Industry by Optimizing Operational Parameters <i>Janhavi Inamdar, SK Singh</i> Mechanical Aeration vis-a-vis Effective Micro-organism based Domestic Sewage Treatment Strategy- A Case Study <i>Ashutosh Das, T Rajaram, V Sri Hari, B Subramanyam, S Anantha Padmanaban</i> Coagulation using DC Current for Removal of Fluoride from Ground Water <i>Sanjeev Sangami, Rohini J, Naveen SM, Mahesh S</i> Holistic Bioremediation of Sewage Waste Water using Autochthonous Bacteria <i>Anil Kumar, Rita Kumar</i> Ground Water Contamination by Municipal Solid Waste Landfill: A Case Study <i>RK Khitoliya, Shakti Arora, Sikander Jaitley</i> Equilibrium and Thermodynamic Studies for the Sorption of Hexavalent Chromium from Aqueous Solution using Low Cost Adsorbents <i>Manjeet Bansal, Diwan Singh, VK Garg, Pawan Rose</i> Comparative Evaluation of Activated Carbon with Rice Husk for Decolourisation of Textile Dye <i>Rekha Singh, JL Tarar</i> Removal of Dyes by <i>Aspergillus</i> Sp. in Growth Supportive and Growth Restricted Modes <i>Prachi Kaushik, Anushree Malik</i> Design of Membrane used for Separation of Aqueous Multi-component mixture by using Reverse Osmosis System <i>Anil Kumar Budhiraja, Suninder Deswal</i> Studies on an Economically Viable Treatment Process for Removal of Zn ⁺² ions from Water using Chemically Modified (<i>tectona grandis</i>) Saw Dust <i>Neeta Sharma, Jatinder Singh, Sumanjit Kaur</i> Polishing of Effluent From UASB Reactor <i>Rinku Wallia, Pradeep Kumar, Indu Mehrotra</i>	

Terrace Hall First Floor	March 21, 2009	09:00 am – 11:00 am
Technical Session 15 [Energy Policy, Planning & Management – II]		
SESSION CHAIR	Power Grid Corporation of India, INDIA	
SESSION CONVENER	Dr. PJ Philip , Professor, NIT Kurukshetra, INDIA	
SPEAKERS	New Models for Reduction of Frictional Energy Losses in Turbulent Flows by Injection of Micro-bubbles <i>Rajinder Pal</i> Development of Energy Efficient Turbo Stove (Micro-Gasifies based on Biomass Gasification) <i>Vivek kumar Singh, P Ramani</i> Energy and Exergy Analysis of Non-Reheat Thermal Power Plant <i>Raj Kumar, Ashok Kumar, SC Kaushik</i> An Environmental Impact Tool to Assess National Energy Scenarios <i>Rina Taviv, AC Brent, H Fortuine</i> India's Energy Security and Renewables <i>Bhupendra Kumar Singh</i> A Simple Voltage Sag/Swell Supporter for Industrial Distribution System <i>C Venkatesh, DVSS Siva Sarma, M Sydulu</i> Natural Gas Industry in Iran <i>Hedayat Omidva</i> Efficiency Improvement Directions for Electric Utilities in Developing Countries Using DEA <i>Vinod Kumar Yadav, NP Padhy, HO Gupta</i> Energy Supply, Demand and Environmental Analysis – A Case Study of Indian Energy Scenario <i>I V Saradhi, GG Pandit, VD Puranik</i> Policy Options for India's Energy Security vis-à-vis Climate change: The Gaps and the Way Forward <i>Rupanwita Dash, Neha Pahuja</i> Thermogravimetric Analysis of Co-Combustion of Waste Tyre Blends with Coal <i>Niturkar Rutavij H1, Pise AT2, Patil RK</i> A Panel Cointegration Analysis of the Demand for Oil in the Middle East <i>Paresh Kumar Narayan, Russell Smyth</i> Energy Performance Indices of Padocem (Sakhli-Goa) Water Treatment Plant <i>Atmaram V Gaonker, Vijaykumar</i> Power Quality Management in DG-Grid Interfaced Systems with DSTATCOM <i>Ramdayal Patidar, SP Singh</i>	

Grand Ballroom [Part-II] Ground Floor	March 21, 2009	09:00 am - 11:00 am
Technical Session 14 [Remote Sensing & Environment]		
SESSION CHAIR	<i>Dr. RS Saini, Executive Director, Idma Foundation For Sustainable Development, Chandigarh, INDIA</i>	
SESSION CONVENER	Dr. Anoop Kumar , Professor, NIT Hamirpur, INDIA	
SPEAKERS	Role of Information in Integrating Environment and Development in Decision Making <i>RS Saini, AM Kalra</i> Change in Forest Cover of Darrah Wildlife Sanctuary in Between 1972-1999 <i>Fatima Sultana</i> Estimating Solar Gain in Buildings Through Direct Sunlight Visualisation in GIS <i>VK Bansal, Mahesh Pa</i> Land Use Change Detection studies in and around Magnesite Mining area, Salem District, Tamil Nadu <i>Navaneethan R, Saranathan E, Girija T, Kannan M</i> ANN & GIS : A New Dimension to Urban Spatial Analysis <i>Anshu Gupta, Vivek Dey, Alok Choudhary, Varun S</i> Change Detection Studies for the Coastal Village -Vanagiri, Nagapattinam District, Tamilnadu using Remote Sensing and GIS <i>Rajesh Kumar V, Victor Rajamanickam G</i> Detection of Land Use/Land Cover Change and its Impact on Soil Erosion, using Satellite Remote Sensing and GIS <i>Poushali Roy</i>	

March 21, 2009	11:00 am – 11:30 am
Tea	

Grand Ballroom [Part-I] Ground Floor	March 21, 2009	11:30 am – 01:30 pm
Technical Session 16 [Environmental Pollution & Management – VI]		
SESSION CHAIR	<i>Dr. Tarunjit S Butalia, Scientist, The Ohio State University, Columbus, USA</i>	
SESSION CONVENER	Dr. CP Kaushik , Professor, GJUST Hisar, INDIA	
SPEAKERS	Beneficial Use of Coal Combustion By-products in the Rehabilitation of Failed Asphalt Pavements <i>Tarunjit S Butalia</i>	

Kinetics of Hydrodesulphurisation of Diesel: Mass Transfer Aspects <i>Sudip K Ganguly</i> Effect of Using Stone Cutting Waste on the Compression Strength and Slump Characteristics of Concrete <i>Kamel K Alzboon, Khalid N Mahasneh</i> Efficient Transportation Planning and System Integration for Healthy Environment of Large Cities <i>Raman Parti, Surjit S Katoch</i> Management of Macrophytes: A New Emerging Tool For Integrated Soil, Water Quality Management Programme <i>Vineet Kumar Gupta, Sandeep K Pandey, Smita Chaudhry</i> Proposing a New Technique of Fuel Injection in Diesel Engines to Reduce Emissions <i>Regidi Nilesh, N Tirumala Rao</i> Environmental Impact Assessment for ScB2 Building 40 Years, Chiang Mai University, Thailand <i>May Thant Zin, Khampasith Thammathevo, Dorji Gyeltshen P</i> Energy and Exergy Analysis of a Captive Steam Power Plant <i>Balkrishna M Chodankar</i> Environmental Consequences of Earthquake Occurrence Case Study: Lorestan Earthquake in June 27-28, 2006 in Iran <i>Negin Binesh</i> Collaborative Planning: A Tool for Environmental Management in Infrastructural Development <i>SK Sharma, Surinder Deswal, Siby John</i> Dew and Rain Water Collection in South Croatia <i>M Muselli, M Mileta, I Milimouk, D Beysens</i> Changes in Rainfall – Runoff Relations by the Dams in Periyar River Basin, Kerala, India – a Comparative Study <i>KU Abdu Rahiman, GS Dwarakish</i> Effect of Compaction Conditions on Strength of Lime Stabilized Flyash <i>S Patel, SP Singh, J Das, D Patel</i> Recycling Post-Consumer Polymers into Construction Materials <i>DK Dave, M J Chokis</i>

Grand Ballroom [Part-II] Ground Floor	March 21, 2009	11:30 am - 01:30 pm
Technical Session 17 [Ecology and Biodiversity Conservation]		
SESSION CHAIR	<i>Ms. Christine Schlepner, ZMAW and Hamburg Univ., GERMANY</i>	
SESSION CONVENER	<i>Dr. Parthapratim Gupta, Professor, NIT Durgapur, INDIA</i>	
SPEAKERS	<p>Effects of Bioenergy Policies and Targets on European Wetland Restoration Options <i>Christine Schlepner</i> Biodiversity Conservation Through Invasive Exotic Plant Management <i>Meena Sharma, Priya Mahajan</i> An Efficient Protocol for Cyclic Somatic Embryogenesis in Neem (Azadirachta Indica A Juss.) <i>Mithilesh Singh, Rakhi Chaturvedi</i> Effect of Different Strains of Rhizobia on the Growth and Yield of Two Cultivars of Common Bean <i>Mohammad Hussein Ansary, Hadi Asadi Rahmani, Hussein Heidary SharifAbad</i> Conservation of Indigenous Rice Biodiversity of Manipur <i>Medhabati Kangabam, RK Sanjukta, Rajiv Das Kangabam</i> The Effect of P-solubilizing Microorganisms on Yield, Yield Components and P-uptake of Different Cultivars of Corn <i>Ali Hosaini, Mohammad Hussein Ansary, Hadi Asadi Rahmani, Hamid Madani</i> Biennial Results for Evaluation of Squash (Cucurbita Pepo) Seed and Fruit Influenced by Planting Patterns and Exogenous Ethylene Application <i>Mehrab Yadegari, Rahim Barzegar</i> Interaction of <i>Jatropha curcas</i> Plantation with Ecosystem <i>Narendra Kumar Sahoo, Ashwani Kumar, Satyawati Sharma, SN Naik</i> Effect of Cyanobacterial Applications on Physical Structure and Enzymatic Activities in a Sandy Soil <i>Anubha Kaushik, Rani Nisha</i> "Goal of Life for Lives on Glob" A Beautiful Scenario of Biodiversity: Conservation on Hill of Aravali Belt <i>Seema Bhardwaj, Lalit Choudhary</i> A Socioecological Study of Sacred Groves and Memorial Parks, Cases from USA and India <i>Ishani Pruthi</i> Aquatic Biodiversity of Rana Pratap Sagar Lake <i>PC Verma, LL Sharma, AG Hegde</i> To Study the Ergonomic Evaluation of Cattle Milking with Remedial Measure <i>Zeena Doomra, Kiran Singh</i> Ergopolis/Villages as a Model of for Sustainable Development <i>Sathish S, Ravi Gangadhar</i> Ergonomics in the Office Environment <i>Arunesh Chandra, Pankaj Chandna, Surinder Deswal</i> Environmental Impact Assessment of Outlived Matatila Power Plant <i>Arun Kumar Shukla, Shravan Kumar Vishwakarma</i></p>	

Terrace Hall First Floor	March 21, 2009	11:30 am - 01:30 pm
Technical Session 18 [Sustainable Development - II]		
SESSION CHAIR	<i>Prof. KS Jagadeesh, University of Agricultural Sciences, Dharwad, INDIA</i>	
SESSION CONVENER	<i>Dr. MK Nagaraj, Professor, NITK Surathkal, INDIA</i>	
SPEAKERS	<p>Biodegradation of PCP by the Rhizobacteria Isolated from Pentachlorophenol-Tolerant Crop Species <i>Avita K Marihal, KS Jagadeesh, Sarita Sinha</i> End-use Pattern of Electricity Consumption at the Household Level in Chennai City <i>BP Chandramohan, C Mayakrishnan, K Chitra Devi, A Vasanthi</i> Promoting Global Sustainability through Energy Efficient Design of Urban Settlements <i>Jit Kumar Gupta</i> Sustainable Development - How far is it Sustainable? <i>Ruchi Mehta</i> Integrated Management System (BEST⁴) for Sustainable Development Through Process Approach <i>Rajesh Goel</i> Use of Natural Fiber Based Graft Copolymer as Reinforcing Materials to Develop Corn Starch Based Green Composites <i>Balbir Singh Kaith, Rajeev Jindal, Mithu Maiti</i> Energy Savings with Green Buildings <i>Hansa S Jeswani, Yashesh Gandhi, Kartiki Naik, Ranjeet Nayak, Amit Pampattiwar</i> A Study on Environment Friendly and Energy Efficient Room Temperature Magnetic Refrigeration <i>K Senthil Kumar, Anubhav Mchrotra, Sanchit Mahajan, K Rajagopal</i> Appropriate Policy Options for Environmental Sustainability in Hamedan Province-Iran <i>Karim Naderi Mahdei, Seyed Mahmood Hosseini, Khalil Kalantari, Ali Asadi</i> Nuclear Energy and Renewable Power: Which is the Best Climate Change Mitigation Option? <i>Benjamin K Sovacool</i> Studies on Doses of Pesticides on Mutations in Seed Character of the Plants for a Better Environment <i>Sangeeta Pathak, KM Pandey</i> Green Buildings - Benefits and Impacts <i>S Srinivas, M Anand</i> Multitude of Benefits for Channelizing Energy Usage through Power Electronics: Welding Inverter - A Case Study <i>Arun Kumar Paul</i> Comparative Assessment of Waste-to-Energy and Waste-to-Manure in Municipal Solid Waste Management <i>Kunwar D Yadav, Vinod Tare</i></p>	

March 21, 2009	01:30 pm - 02:15 pm
Lunch	

March 21, 2009	02:15 pm - 03:00 pm
Valedictory	
WELCOME BY THE CHAIR	<i>Dr. Prof. MN Bandyopadhyay, Director, NIT Kurukshetra, INDIA</i>
CONFERENCE REPORT	<i>Dr. Baldev Setia, Professor, NIT Kurukshetra, INDIA</i>
VALEDICTORY ADDRESS	<i>Mr. VP Saha, Chairman, WFO Energy Saving Commission, INDIA</i>
VOTE OF THANKS	<i>Prof. Pankaj Chandna, Conference Chair, EnviroEnergy2009</i>