

Table of Contents

ICEEB 2012 Session 1

The MATLAB Toolbox for GPS Data to Calculate Motorcycle Emission in Hanoi – Vietnam	1
---	---

Le Anh Son, Junyi Zhang, Akimasa Fujiwara

The Potential of Jatropha Curcas for Agriculture and Forest Diesel Engine in Vietnam	7
--	---

Dang Tien Hoa, Bui Hai Trieu and Le Anh Son

Parametric Carbon-Neutral 3D-DesignWithClimatic Tropism For Better Building Energy Performance	12
--	----

Thomas Spiegelhalter and Andrew Lee

Investigating the Feasibility of Applying Integrated Photovoltaic and Solar Water Heating Systems in Residential Buildings	18
--	----

Farideh Atabi, Elmira Mousazadeh Namini, Arash Rasooli

Technical-Economical and Environmental Feasibility Study of Combined Heat and Power Systems in Pulp and Paper Industry	23
--	----

Farideh Atabi, Abtin Ataei, Mercedeh Sadat Mirmolavi, Arash Rasooli and Ali Poursaeidesfahani

ICEEB 2012 Session 2

Assessing the Spatial Efficiency of Urban Development within the DPSIP Model	28
--	----

Hsing-Fu Kuo and Ko-Wan Tsou

Development of Theoretical Correlation For Prediction of Boiling Heat Transfer using TiO ₂ -Water Nanofluid	34
--	----

Sagnik Pal and Swapan Bhaumik

Comparison of Artificial Neural Network Transfer Functions Abilities to Simulate Extreme Run off Data	39
---	----

Mohammad Dorofki, Ahmed H. Elshafie, Othman Jaafar, Othman A. Karim and Sharifah Mastura

Air Pollution Through Vehicular Emissions in Urban India and Preventive Measures	45
--	----

Pranav Raghav Sood

Radioactivity Measurements for Some Building Materials in Yemen and Simulation of the Annual Effective Dose Rate	50
--	----

M.M. Sherif, S.Harb,H.Diab and Safa.Y.Abdo

ICEEB 2012 Session 3

A Reflection on the Importance of Estimating Environmental Flows in Seasonal Rivers. The Case of Rivers in Central Mexico <i>Pedro Joaquín Gutiérrez- Yurrita</i>	55
Environmental Impact of Portable Power Generator on Indoor Air Quality <i>Ismail Adefeso, Jacob Sonibare, Funso Akeredolu, Ademola Rabi</i>	60
Selection of CO ₂ Control Technology For Cement Industry Using Analytic Hierarchy Process <i>Mohammed Ba-Shammakh</i>	66
The Study of the Land-use Change Factors in Coastal Land Subsidence Area in Taiwan <i>Shu-Wei Huang and Hsiu-I Hsieh</i>	70
Assessment of Contamination by Petroleum Hydrocarbons in Sediments of Musa Bay, Northwest of the Persian Gulf-Iran <i>Ghazaleh Monazami Tehrani, Rosli Hshim, Abdul Halim Sulaiman, Seyedeh Belin Tavakoly Sany, Reza Khani Jazani and Zhamak Monazami Tehrani</i>	75
ICEEB 2012 Session 4	
Vehicular Emission Monitoring Using Internet GIS, GPS and Sensors <i>P. Partheeban, R. Rani Hemamalini and H. Prasad Raju</i>	81
Using a Geo-environmental Index to Diagnose and Prevent Environmental Pollution by Trace Metals in the Texcoco Lake Ecological Park, Mexico. <i>Jaime San Román Sierra, Norma P. Muñoz-Sevilla, Miguel Á. López-Flores and Pedro Joaquín Gutiérrez- Yurrita</i>	86
Factorial Design of Experiment for Biofuel Production by <i>Isochrysis Galbana</i> <i>Jen-Jeng Chen, Yu-Ru Li, Meng-ZhiXie, Chun-Yen Chiu, Shao-Wei Liao and Wen-Liang Lai</i>	91
Effect of Precipitation on Performance of Sanitary Landfill <i>AikHeng Lee and Hamid Nikraz</i>	96
Coping with Climate Change through Air Pollution Control: Some Legal Initiatives from Malaysia <i>Maizatun Mustafa, Sharifah Zubaidah Syed Abdul Kader and Azlinor Sufian</i>	101
ICEEB 2012 Session 5	
Challenge and Barrier for developing RE policy in Thailand <i>Roosbeh Kardooni and Morteza Afghah</i>	106
Domestic Wastewater Treatment Using Constructed Wetland as a Development Strategy of Sustainable Residential <i>Rahmadyanti Erina and Wiyono Edi</i>	110
Long-term Electricity Forecasting: A System Dynamics Approach <i>Salman Ahmad Akhwanzada and Razman Bin Mat Tahar</i>	116

Extraction of Drainage Pattern from ASTER and SRTM Data for a River Basin using GIS Tools 120
Solomon Vimal, Nagesh Kumar, Indu Jaya

Sustainable Co-generation Plant: Refuse-Derived Fuel Gasification Integrated with High Temperature PEM Fuel Cell System 125
Ismail Adefeso, Daniel Ikhu-Omoregbe and Ademola Rabiu

ICEEB 2012 Session 6

Ecological Risk Assessment of Poly Aromatic Hydrocarbons in the West Port, Malaysia 130
Belin Tavakoly Sany, Aishah Salleh, Mohammad Hajjartabar, Ghazaleh Monazami Tehrani

Coastal Bitumen Pollution of the Mediterranean City of Alexandria, Egypt 136
Abdelrahman. H. Hegazi and Eiman. M. Fathalla

Renewable Energy and Rural Environment in India: Challenges ahead 139
Tarujyoti Buragohain

Comparison of Bioethanol and Biodiesel Feedstock with Futuristic-Look at Biofuel 144
Hamidreza Jaliliannosrati, AminTalebian Kiakalaieh and Alireza Zarei

Financial Analysis of Small-Hydro Power Project in Malaysia from the Investor Perspective 149
Amir Pasha Zanjani Nasab

ICEEB 2012 Session 7

Wave Powered Deep-sea Desalination Scheme 154
Reza Dashtpour and Sarim Al Zubaidy

Grain Size and Lattice Parameters of CuInSe₂ Films 163
A. A. I. Al-Bassam and U. A. Elani

Crops Yield Assessment Using Agro Forestry Practices 168
Nassrelddin Mohammed Zien Ahmed, Mohammad Rahmat Ullah , Wu Bin and Zhang Yuqing

Cellulase Activity and Glucose Production by *Bacillus Cereus* Mono-Culture Utilizing Palm Kernel Cake (Pkc) under Solid State Fermentation 172
Tengku Norsalwani Tuan Lah, Nik Norulaini Nik Ab Rahman, Moftah Massaud Ben Nama

Water Quality Status of Kinta River Tributaries Based on Land Use Activities 178
Azyana Yaakub and Nik Norulaini Nik Ab Rahman

ICEEB 2012 Session 8

Integration of Rice Market Inter-Provinces of Rice Production Center in Indonesia 183
Desi Aryani, Yulius

The Level of Farmer Self Reliance and Institutional Strengthness Strategy In Empowerment Of Lowland Rice In Ogan Ilir Regency South Sumatera Indonesia <i>Selly Oktarina, Nukmal Hakim, Yulian Junaidi</i>	189
Efficiency Analysis of Palm Plantation Plasma Farmers Certified RSPO and Non RSPO on Sustainable Palm Plantation Management in Banyuasin Regency South Sumatera <i>Henny Malini, Desi Aryani</i>	194
Assessment of Yield and Soil Properties using Agroforestry Practices in a Degraded Land <i>Nassrelddin Mohammed Zien Ahmed , Wu Bin, Zhang Yuqing and Ullah Mohammad Rahmat</i>	200
Oil Content and Growth Characters of Lemongrass With Respect to Iron Pyrite and RSC Rich Irrigation Water <i>V.P.S. Bhadauria, Varsha Gupta , Rahul Raj and F.M. Prasad</i>	205
ICEEB 2012 Session 9	
Water Quality Changes on Highland Forest before, during and after Timber Harvesting <i>Marryanna Lion</i>	209
Grey Water Reclamation Using Multisystem of GAC Biofilm Reactor and Sand Filter: Case Studies of Mosques in Yemen <i>Mohammed Hasan Al-Mughalles, Rakmi Abdul Rahman, Fatihah Suja and Nurul'ain Abd Jalil</i>	213
Effect of Soil Properties on <i>Artemisia sieberi</i> Forage and Growth <i>Ali Ariapour and Marzieh Asgari</i>	221
ICFEB 2012 Session 10 (Food Engineering and Biotechnology)	
Establishment of a Gaseous pH Control Concept in Microbioreactors <i>Muhd Nazrul Hisham Zainal Alam, Daniel Schapper and Krist V. Gernaey</i>	228
Palm Kernel Cake Protein and Its Hydrolysate: A Novel and Inexpensive Antioxidant <i>Ng Khar Ling, Siti Norhazira bt Bosra Abu and Mohd Khan Ayob</i>	235
Exploration of the Glycine Residues Essential for NAD ⁺ -binding of <i>Bacillus licheniformis</i> Aldehyde Dehydrogenase <i>Den-Tai Lin, Yen-Chung Lee, Huei-Fen Lo and Long-Liu Lin</i>	239
Preliminary Test of Hydrocarbon Exposure on <i>Azolla pinnata</i> in Phytoremediation Process <i>Israa Abdulwahab Al-Baldawi, Siti Rozaimah Sheikh Abdullah, Fatihah Suja, Nurina Anuar and Mushrifah Idris</i>	244
Properties and Stability of Catfish Oil-in-water Emulsions as Affected by Oil and	248

Emulsifier Concentrations

Nor Hayati Ibrahim and Nurul Najwa Md Yusof

ICFEB 2012 Session 11 (Food Engineering and Biotechnology)

Study of Inflorescence Development under Lead Toxicity in <i>Matricaria chamomilla</i> <i>Albooghobaish N, Zarinkamar F</i>	253
Optimization of Culture Conditions for the Production of An Extracellular Alkaline Protease from <i>Vibrio mimicus</i> <i>Suppiah Sankaralingam, Ramasamy Ramasubburayan and Arunachalam Palavesam</i>	259
Kinetics of Color Degradation in Thermal Processed Almond <i>Arınç KAFTAN</i>	265
Sensitization of Solvent Extract of <i>Spirulina platensis</i> (Geitler) against Some Dermatophytes and Related Fungi <i>Vinay Kumar, A.K. Bhatnagar and J.N. Srivastava</i>	270
Atmospheric Pressure Plasma Technology: A New Tool for Food Preservation <i>Roya Afshari and Hedayat Hosseini</i>	275
Author Index	279