

Paper ID	<p style="text-align: center;">Technical Session – I Fluid Mechanics 01 November 2013 Friday 2:00-4:00 PM Venue: Room # A Chair: Prof. Yos Morsi (SUT, Australia) Co-chair: Prof. Dr. Md. Mahbub Alam (HIT, China)</p>	Page #
FM-01	Application and Analysis of Marine Water Jet Propulsion <u>Md. Jaur Rahman</u> (BUET, Bangladesh)	
FM-02	Effects of Fibrous Cap Thickness and Stenosis Severity on the Fluid and Structural Behavior in a Model Stenosed Artery M. Rejaul Haque (BUET, Bangladesh) <u>M. Emran Hossain Bhuiyan</u> (BUET) A.B.M. Toufique Hasan (BUET)	
FM-03	Experimental Analysis on Minor Head Loss for Flow Through Locally Manufactured Ball Valve for Supplying Fluid in Bangladesh <u>Sadia Haque</u> (BUET, Bangladesh) M. Q. Islam (BUET)	
FM-04	Flow Topology Around Two Square Cylinders in Side-By-Side Arrangement <u>Md. Mahbub Alam</u> (HIT, China)	
FM-05	Reduction of Fuel Consumption of a Car by Aerodynamic Drag Reduction Mohammad Mashud (KUET, Bangladesh) Abdullah Al Bari (KUET) <u>Md. Shahadot Hoshen</u> (KUET)	
FM-06	Analysis of Flow in Complex Pipe System <u>Abdul Mohaimen Safi</u> (BUET, Bangladesh)	
FM-07	Numerical Study of Laminar Boudary Layer Using Navier Stokes Equation and Finite Volume Method <u>Toukir Islam</u> (BUET, Bangladesh) Md. Minal Nahin (BUET) Md. Abu Abrar (BUET)	
FM-10	Flow Separation Control on NACA 0015 Airfoil Using Plasman Vortex Generator <u>C. W. Wong</u> (HIT, China) L. J. Wang (China) Z. Wu (China) C. H. Li (China) Q. Sun (China) M. M. Alam (China) Y. Zhou(China)	
FM-11	Hydrodynamic Analysis of Wave Impact Forces and Overturning Moment on Monopile Foundations of Offshore Wind Turbines <u>Md. Shahidul Islam</u> (BUET, Bangladesh) Gazi Md. Khalil (BUET)	
FM-12	Effect of Roughness Height on the Turbulence Models for Ahmed Car Body Simulation Abul Kalam Azad (KUET, Bangladesh) <u>Mohammad Arif Hossain</u> (KUET) AKM Sadrul Islam (IUT, Bangladesh)	
FM-13	Flow Over Circular Cylinders in Axial Flow with Different Nose Shapes Qin Sun (HIT, China) <u>Md. Mahbub Alam</u> (China) C.W. Wong (China) Y.Zhou (China)	

Paper ID	<p style="text-align: center;">Technical Session – II Energy Technology – I 01 November 2013 Friday 2:00-4:00 PM Venue: Room # B Chair: Prof. Dr. Md. Tajul Islam (CUET, Bangladesh) Co-chair: Prof. Dr. Nirendra Nath Mustafi (RUET, Bangladesh)</p>	Page #
ET-01	Implementation Procedure and Financial Model of Solar Mini Grid at Rural Areas in Bangladesh <u>S.M. Najmul Hoque</u> (RUET, Bangladesh) Barun Kumar Das (RUET) Mohd. Rafiqul Alam Beg (RUET) Roqibul Isalm (SED, GIZ , Bangladesh)	
ET-04	Performance of Nanofluid with Different Nanoparticles Inside a Solar Collector <u>Rehena Nasrin</u> (BUET, Bangladesh) Salma Parvin (BUET) M.A. Alim (BUET)	
ET-13	Renewable Energy in Rural Development <u>M. A. Zobaer</u> (BUET, Bangladesh) M. A. R. Sarkar (Bangladesh)	
ET-14	An Investigation on the Production of Brown Gas (HHO) as an Alternative Automotive Fuel by Water Electrolysis <u>Mustafi Nirendra N.</u> (RUET, Bangladesh) Amin Md. Ruhul (RUET) Ahmed Md. Zakaria (RUET) Islam Md. Mayeedul (RUET)	
ET-17	Design, Fabrication and Performance Test of an Improved Solar Water Heater K. H. Pulok (RUET, Bangladesh) S. N. Shaily (RUET) <u>M. M. Hasan</u> (RUET) Manik (BUET) Md. Shamim Akhter (RUET)	
ET-24	Development of a Novel Water Treatment Technique Using Solar Still Cum Sand Filter Abdullah Al Sadeek (KUET, Bangladesh) Kh. Mahbub Hassan (KUET) Md. Iftekar Alam (KUET) <u>Md. Atiqur Rahman</u> (KUET)	
ET-25	Design and Fabrication of a Solar Agricultural Water Pumping System and Cost Comparison with Diesel Pumps Md. Saifur Rahman (CUET, Bangladesh) Juwel Chandra Mojumder (CUET) <u>Md. Yousuf Mia</u> (CUET) Romel Barua (CUET) Anamul Hossain (CUET)	
ET-27	Hybrid Energy Modeling for Auto Vehicles <u>Necolus Shaha</u> (DUET, Bangladesh) Md. Bashir Uddin (DUET)	
ET-28	Low Voltage Ride Through (LVRT) Capability Improvement of Wind Power Generator by Using STATCOM <u>Md. Hasanuzzaman</u> (RUET, Bangladesh) M.R.I. Sheikh (RUET)	
ET-29	Design, construction and performance test of a portable solar cooker <u>M.A. Kader</u> (RUET, Bangladesh) Raju Ahamed (RUET) B.K. Das (RUET) M.E. Hoque (RUET) S.M.N. Hoque (RUET) M.A. Rahim (RUET) S.M. Rasid (RUET)	
ET-30	Solar Cooling System: Progress, Prospect and Future Directions <u>Satyajit Mojumder</u> (BUET, Bangladesh) Sourav Saha (BUET) M. M. Rahman (UM, Malaysia) M.A.H. Mamun (BUET)	
ET-32	Study on Energy Situation in Bangladesh M. Alauddin Al Azad (KUET, Bangladesh) <u>Niamat Ullah Ibne Hossain</u> (KUET) Md. Ridwan Mahmud (KUET)	

Paper ID	<p style="text-align: center;">Technical Session – III Material Science- I 01 November 2013 Friday 2.00-4.00 PM Venue: Room # C Chair: Prof. Siddhaartha Mukherjee (Jadavpur University, India) Co-chair: Prof. Dr. Md. Shamimur Rahman (RUET, Bangladesh)</p>	Page #
MS-05	Separation of Silica from Local Clay <u>Hosne Ara</u> (BUET, Bangladesh) Tasmia Zaman (RUET, Bangladesh) A.S.W. Kurny (BUET)	
MS-08	Improved Dielectric Properties of La/Mn Codoped Bismuth Titanate Ceramic <u>M. S. Parvez</u> (Bangladesh) M. Bodiul Islam (Bangladesh)	
MS-14	Effect of Composition and Sintering Temperature on the Microstructure and Theoretical Density of Titania Stabilized Alumina Cutting Tool. <u>Abu Naser Rashid Reza</u> (BUET, Bangladesh) Tashneem Ara Islam (RUAS, Germany) Md. Fakhru Islam (BUET) Md. Mohar Ali Bepari (BUET)	
MS-15	Corrosion of Galvanized Steel and Its Substitutes in Various Environments M. Merajul Haque (BUET, Bangladesh) <u>S. Alam Limon</u> (BUET) M.Moniruzzaman (BUET) Md. Mohar Ali Bepari (BUET)	
MS-19	Studies on the Artificial Ageing and Microstructure of the Al-6Si-0.5Mg Alloys with Copper Addition at Various Levels A. Hossain (BUET, Bangladesh) M. S. Kaiser (BUET) <u>A. S. W. Kurny</u> (BUET)	
MS-20	Influence of Copper and Nickel Addition on Microstructure and Artificial Ageing of Al-6Si-0.5Mg Alloys A. Hossain (BUET, Bangladesh) M. S. Kaiser (BUET) <u>A. S. W. Kurny</u> (BUET)	
MS-23	Formation of Perovskite Structure and Microstructure Development of Nb Doped BaTiO ₃ Based Ceramics <u>A. N. Ahmed</u> (BUET, Bangladesh) H. M.M.A. Rashed (BUET)	
MS-25	Surface Alloying of CP-Ti Using preplaced Fe-C-Si powder by Tungsten Inert Gas Torch Technique M.A Maleque (IIUM, Malaysia) <u>S.A. Adeleke</u> (IIUM, Malaysia)	
MS-29	Design and Fabrication of an Experimental Set-Up to Measure Carbon Content of an Alloy <u>Md. Yousuf Mia</u> (CUET, Bangladesh) J. C. Mojumder (CUET) Md. Saifur Rahman (CUET) Anamul Hossain (BUET, Bangladesh) Romel Barua (BUET)	
MS-38	Stress Analysis of an Internal Grooved Pressure Vessel <u>Abdul Mohaimen Safi</u> (BUET, Bangladesh)	
MS-39	Evaluation of Start of Crack Growth of Aluminum Alloy using Optical Microscopy Md. Nurul Islam (RUET, Bangladesh), <u>Sadia Afrin</u> (RUET) and Ananya Rani Kundu (RUET)	

MS-48	Optimization of Process Parameters of Shielded Metal Arc Welding (SMAW) For Stainless Steel Welding Naseem Ahmed (KUET, Bangladesh) Soumen Halder (KUET) Md. Asadul Islam (KUET) <u>Niamat Ullah Ibne Hossain</u> (KUET)	
Technical Session – IV Thermal Engineering 01 November 2013 Friday 2.00-4.00 PM Venue: Room # D Chair: Dr. Firoz Alam (RMIT, Australia) Co-chair: Dr. Altab Hossain (UM, Malaysia)		
Paper ID		Page #
TE-02	Finite Difference Solution of the Transient Free Convection in Micropolar Fluid with Heat Generation and Constant Heat Flux GM Rashid (KUET, Bangladesh) MM Alam (KU, Bangladesh) <u>MA Hossain</u> (KUET)	
TE-03	Enhancement of Higher Evaporating Temperature of Household Refrigerator using Phase change Material Md. Imran Hossen Khan (DUET, Bangladesh) Hasan M.M. Afroz (DUET) <u>Md. Mostafizur Rahman</u> (DUET)	
TE-04	Aspen-Hysys Simulation of a Condensate Fractionation Plant <u>Sukanta Kumar Mondal</u> (SUST, Bangladesh) M. Rakib Uddin (SUST) A. K. Azad (CQU, Australia)	
TE-05	Conjugate Effect of Convection and Conduction in a Nanofluid-Filled Complicated Cavity <u>Salma parvin</u> (BUET, Bangladesh) Rehena Nasrin (BUET) M. A. Alim (BUET)	
TE-07	Experimental Investigation and Prediction of Heat Transfer in Turbulent Flow through Tube with Conical Ring Inserts <u>Saddam Hossain Khan</u> (BUET, Bangladesh) M. A. Rashid Sarkar (BUET)	
TE-09	Heat Absorption and Joule Heating Effect along a Vertical Wavy Surface on MHD Free Convection Flow with Viscosity Dependent on Temperature <u>N. Parveen</u> (BUET, Bangladesh) M. A. Alim (BUET)	
TE-11	Design, Construction and Testing of a Port Fuel Injection (PFI) System for a Four Cylinder SI Engine <u>Md. Syed Ali Molla</u> (KUET, Bangladesh) Mohd. Sapuan Salit (UPM, Malaysia) G.M. Sutan Mahmud Rana (KUET)	
TE-12	Performance Test of a Diesel Engine with Different Esters of Alternative Fuel <u>S.M. Najmul Hoque</u> (RUET, Bangladesh) Mohd. Rafiqul Alam Beg (RUET) Barun Kumar Das (RUET) S.M. Rasid (RUET)	
TE-14	Design Operation and Maintenance of Potato Cold Storage in Bangladesh <u>Md. M. Islam</u> (BUET, Bangladesh) Md. M. M. Hasan (BUET) M A R Sarkar (BUET)	

TE-16	Performance evaluation of PV Module Using Water Filters and Infrared Reflective Glass Covers Y. Baradey (IIUM, Malaysia) <u>M.N.A.Hawladar</u> (Malaysia) M. Idres and S. I.Ihsan (Malaysia)	
TE-17	Investigation of Condensation Heat Transfer Characteristics for R1234ze(E), R32, R410A and Zeotropic Mixture of R1234ze(E) and R32 inside Smooth Tube Md. Anowar Hossain (DUET, Bangladesh) Akio Miyara (JU, Japan) <u>Md. Zahidul Sarkar</u> (DUET) Md. Jahangir Alam (DUET)	

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AM-01	Investigation of the Effect of Composite Bed on Milling Machine to Reduce Chatter <u>Adib Bin Rashid</u> (IUT, Bangladesh) Hasibul Shams (IUT) Abdur Rashid Tipu (Bangladesh) Mohammad Reyad Arefin (IUT)	
AM-05	Effect of Frequency and Amplitude of Vibration on Ring-Traveller Friction of Ring Spinning Frame <u>Hosne Ara Begum</u> (Bangladesh) Prof. Dr. Md. Maksud Helali (Bangladesh) Abu Bakr Siddique (Bangladesh)	
AM-07	Development of an Automatic Humidity Control System M.E. Hoque (RUET, Bangladesh) <u>S.M. Rasid</u> (RUET) Amit Roy (RUET) N. Paul (RUET) Ferdous Alam (RUET) Md. Raseluzzaman (RUET)	
AM-08	Design & Performance Analysis of a Smart Portable PV Charger Md. Abu Shahab Mollah (AUST, Bangladesh) <u>M. A. Parvez Mahmud</u> (UST, South Korea) Md. Faysal Nayan (KUET, Bangladesh) Shahjadi Hisan Farjana (KUET, Bangladesh) Sharmin Sobhan (AUST, Bangladesh)	
AM-12	Development of Automatic Smart Waste Sorter Machine <u>Mahmudul Hasan Russel</u> (CUET, Bangladesh) Mehdi Hasan Chowdhury (CUET) Md. Shekh Naim Uddin (CUET) Ashif Newaz (CUET) Md. Mehdi Masud Talukder (CUET)	
AM-13	Improvement of Vibration Isolation Characteristics Using Acceleration Feedback Based on Kalman Filter Estimation <u>M. M. Zaglul Shahadat</u> (Saitama University, Japan) T. Mizuno (SU.) Y. Ishino (SU) M. Takasaki (SU)	
AM-16	Tactile Feedback Using Surface Acoustic Wave <u>Masaya Takasaki</u> (Saitama University, Japan) Takeshi Mizuno (SU)	
AM-18	An Analytical Study of Passive Anti-Roll Tanks Gazi Md. Khalil (BUET, Bangladesh) <u>Syed Marzan-ul Hasan</u> (YNU, Japan) Md. Ehsan Khaled (YNU)	

AM-20	Implementation of Drive by Wire Technology Replacing the Conventional Vehicle Control System <u>Ahmad Hasan Jarjis</u> (KUET, Bangladesh) Md. Zonayed Hossain (KUET) G.M Sultan Mahmud Rana (KUET) Niamat Ullah Ibne Hossain (KUET)	
AM-22	Harvesting Energy from Sound and Vibration <u>Arifur Rahman</u> (RUET, Bangladesh) M. E. Hoque (RUET)	

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IE-01	Inventory System with Postponed Demands Considering Reneging Pool and Rejecting Buffer Customer Mohammad Ekramol Islam (NU, Bangladesh) <u>K.M Safiqul Islam</u> (DSH, Bangladesh) M Sharif Uddin (JU, Bangladesh)	
IE-02	Bank Management Under Data Mining Environment Towards Fraud Detection <u>Md. Sarwar Kamal</u> (TU, Bangladesh) Md. Aktar kamal (IUT, Bangladesh) Sonia Farhana Nimmy (IUT, Bangladesh)	
IE-05	Inventory System with Postponed Demands and Service Facilities-MAM Approach <u>Mohammad Ekramol Islam</u> (NU, Bangladesh)	
IE-11	Applying Genetic Algorithms to Resolve Facility Layout Problem of An Industry in Bangladesh <u>Subrata Talapatra</u> (KUET, Bangladesh) Tarapada Bhowmick (KUET) Kazi Arif-Uz-Zaman (KUET)	
IE-20	Application of Fuzzy Logic in Aggregate Production Planning <u>Md. Mohibul Islam</u> (RUET, Bangladesh) Khan Md. Ariful Haque (RUET) Md. Mosharraf Hossain (RUET) Md. Ahsanul Haque Khan (RUET) Md. Rokebul Islam (RUET)	
IE-21	An Efficient Supply Chain in Apparel Industry <u>Shibbir Ahmad</u> (BIM, Bangladesh) M. Iqbal (SUST, Bangladesh) Salma A. Iqbal (SUST) M. Roomi (Bangladesh)	
IE-30	Characterization of Calcined Sugarcane Bagasse Ash and Sugarcane Waste Ash for Industrial Use <u>Mst. Shanjida Sultana</u> (BCSIR, Bangladesh) Md. Aminur Rahman (BCSIR)	
IE-33	Analysis and Treatment of Waste Water of Textile Dyeing Industry: Study On Bulbul Textile, Kushtia, Bangladesh <u>S.M. Hasan Razu</u> (KU, Bangladesh) Abul Kalam Azad (ESD, Khulna, Bangladesh) Quazi Hamidul Bari (KUET, Bangladesh) Masudur Rahman (ESD)	
IE-38	Investigation of Powder and Binder Mixing Mechanism in Metal Injection Molding <u>Altam Hossain</u> (UM, Malaysia) I. A. Choudhury (UM) M. Azuddin (UM) C. X. Yun (UM)	

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RT-03	Sea-Level Extremes and Change- Example of Bangladesh Cansu Karsili (LU, Sweden) <u>I. B. Muhit</u> (CUET, Bangladesh) Mohammad Emdadul Hoque (LU, Sweden) Sohidul Islam (LU, Sweden)	
RT-05	Analyzing Energy Drinks Effect on Respiratory and Cardiac Function by Wavelet Transforms Using Laser Doppler Flowmetry <u>Md. Nafiur Rahman Protik</u> (HMDSTU, Bangladesh) Fatema Khatun (HMDSTU, Bangladesh) Muhammad Muinul Islam (KUET, Bangladesh)	
RT-06	Better Understanding of Food Material on the Basis of Water Distribution using Thermogravimetric Analysis <u>Mohammad U. H. Joardder</u> (QUT, Australia) M.A. Karim(QUT, Australia) Chandan Kumar (QUT, Australia)	
RT-09	Study of Soil Properties and Evaluation of Evapo-transpiration for Wheat by Soil Moisture Depletion Studies H. M. Rasel (RUET, Bangladesh) <u>B. Ahmed</u> (RUET) M. R. Hasan (RUET) M. S. U. Miah (RUET)	
RT-10	Wastewater Quality at Different Stages of Decentralised Waste water Treatment Process in the Peoples Panchtala Colony at Kalishpur, Khulna <u>Shuma R. Saha</u> (KUET, Bangladesh) Muhammed Alamgir (KUET)	
RT-11	A Survey of Different Types of Mask Available in Market and Development of a New Mask to Resist Particulate Emission <u>Md. Abdur Rahim</u> (RUET, Bangladesh), Md. Shamim Akhter (RUET) S.M. Rasid (RUET) Md. Shahadat Hossain (RUET) Md. Sheikh Farid (RUET)	
RT-13	Improved Underground Mine Design for Reducing Subsidence at Barapukuria Coal Mine, NW Bangladesh Syeda Musarrat Jabin (JSTU, Bangladesh) Kamruzzaman Miah (JSTU) Md. Hafizur Rahman (JSTU) Md. Abdullah-Al-Josi (JSTU) Md. Minhaj Uddin Monir (JSTU) <u>H. M. Zakir Hossain</u> (JSTU)	
RT-15	People’s Perception on Environment in Urban Areas: A case Study on Dhaka City <u>Md. Shahidul Islam</u> (PC, Bangladesh) Md. Masud Rana(PC) Raquib Ahmed (PC)	
RT-17	Assesment of Supplied Water Quality of Khulna WASA Of Bangladesh <u>Kanij Fahmida</u> (KUET, Bangladesh) Md. Hasibur Rahman Lemon (KUET) Md. Saiful Islam (KUET) Md. Abdul Kader (KUET)	
RT-19	A Study or Heavy Minerals Resereve and Separation Forces from Raw Beach Sands Along the Coastal Belt of Bangladesh <u>Mohammad Islam Miah</u> (CUET, Bangladesh)	
RT-20	Color Strength Modeling of Knitted Fabrics Using Fuzzy Logic Approach Ismail Hossain (UM, Malaysia) <u>Altah Hossain</u> (UM) I. A. Choudhury (UM) A. Bakar (UM) A. Shahid (DUET, Bangladesh)	

RT-26	An Assessment of Subsidence due to the Extraction of 1203 Slice with its Associated Factors in the Barapukuria Coal Mine, Bangladesh <u>M. Farhad Howladar</u> (SUST, Bangladesh) Kamrul Hasan (SUST)	
Technical Session – VIII Material Science-II 01 November 2013 Friday 4:15–6:30 PM Venue: Room # D Chair: Prof. Mohd. Sapuan Salit (UPM, Malaysia) Co- Chair: Prof. Dr. Khandkar Aftab Hossain (KUET, Bangladesh)		
Paper ID		Page #
MS-01	In Situ Synthesis of Ferrites Nano Particles Using Sono Chemical Route P. P. Goswami (IITG, India) H.A. Choudhury (IITG) <u>S. Chakma</u> (IITG) V. S. Moholkar (IITG)	
MS-02	Influence of Porosity on Flexural Strength and Flexural Modulus of an Eco-ceramic Membrane <u>Sujoy Bose</u> (IITG, India) Chandan Das (IITG)	
MS-03	Effects of Deformation on Microstructure and Mechanical Behavior of Al-Cu Alloys N. Nafsin (BUET, Bangladesh) <u>H. M. M. A. Rashed</u> (BUET)	
MS-07	Effect of Cu in Al-Si Alloys with Phase Modeling <u>E. A. Ashrafi</u> (BUET, Bangladesh) A. Hasan (BUET) H. M. M. A. Rashed (BUET)	
MS-09	Structural Analysis and Mechanical Testing of Single Fiber from Ladies Finger Plant S. Imam Hossain (BUET, Bangladesh) <u>Mahbub Hasan</u> (BUET)	
MS-11	Corrosion Behavior of Different Percentage Al-Zn Galvanized Steel <u>Azrin Akhter Chowdhury</u> (BUET, Bangladesh)	
MS-12	Phase Evolution & Characterization of Spinel Ferrite (Oxide) Nanocomposite material prepared by Chemical Route <u>Soumya Mukherjee</u> (Jadavpur University, India) Abhigyan Datta (JU) Mrinal Saha (JU) Siddhartha Mukherjee (JU)	
MS-32	Evaluation of Stabilized Soil Blocks with the inclusion of ‘Plastic Fibre’ as Sustainable Building Material: A Complete Review <u>I. B. Muhit</u> (CUET, Bangladesh)	
MS-33	Analysis of Order of Stress Singularity at a Vertex in 3D Transversely Isotropic Piezoelectric Dissimilar Bonded Joints <u>Md. Shahidul Islam</u> (KUET, Bangladesh) Md. Golam Kader (KUET)	
MS-36	Analysis of Moisture Absorption Effect on the Longitudinal Three Point Bend Properties of Jute Epoxy Composite Processed Under Modified Compression Molding Process <u>Md. Rashnal Hossain</u> (KUL, Belgium) Md. Aminul Islam (BUET, Bangladesh) Ayasha Akter Aart (BUET) Van Vuure (KUL, Belgium) Ignaas Verpoest (KUL, Belgium)	

MS-43	Effects of Internal Resistance on the Photovoltaic Parameters of Solar Cells <u>Robin Khan</u> (RUET, Bangladesh) M.F.Hossain (RUET)	
MS-46	Investigation of the Photovoltaic performance of Si-based solar cells under different Light Illuminations <u>Mst. Rebeka Sultana</u> (RUET, Bangladesh) Md Faruk Hossain (RUET) Mst Hasnara Khatun (RUET)	

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AM-02	Imaging Problems of a Low Cost Finger Print Sensor & Adjusting Various Parameters for its Improvement Amit Roy (RUET, Bangladesh) Md. Rokunuzzaman (RUET) S. M. Rasid (RUET) <u>Md. M. Hasan</u> (RUET) G. Azam (RUET) B. K. Sarker (RUET)	
AM-03	Design and Implementation of a Remote Controlled Robotic Arm Based on Industrial Application Perspective <u>Md. Bony Amin</u> (KUET, Bangladesh) G.M. Sultan Mahmud Rana (KUET) Abdullah-Al-Farabi (KUET) A.M.M. Nazmul Ahsan (KUET) Md. Ahasan Habib (KUET)	
AM-04	Hand Gesture Recognition by Artificial Neural Network Soumen paul (KUET, Bangladesh) Md. Abu Shahab Mollah (AUST, Bangladesh) Rajibuzzaman (KUET) Tanvir Ahmad (AUST) Kazi Toufiqur Rahman (DIU, Bangladesh)	
AM-10	Development of Autonomous Line Following Robots for Solving a Maze Problem. <u>Md. Rokunuzzaman</u> (RUET, Bangladesh) Asif Ahmed Shishir (RUET) Md. Saeed Sharman (RUET) Amit Roy (RUET)	
AM-11	Development of a Multipoint Digital Thermometer by Microcontroller Amit Roy (RUET, Bangladesh) <u>Md. M. Hasan</u> (RUET) S. U. Ahmed (RUET) Md. Rokunuzzaman (RUET)	
AM-14	Design and Fabrication of a Model Remote Control Gun Fire <u>Md. Tazul Islam</u> (CUET, Bangladesh) Syed Al-Mamun (CUET) M Raisul Islam (AIUB, Bangladesh)	
AM-15	Development of an Obstacle Avoidance System for Mobile Robot to Avoid Accident by Using Microcontroller <u>Md. Rokunuzzaman</u> (RUET, Bangladesh) Amit Roy (RUET) S. M. Rasid (RUET) Md. Sumon Reza (RUET) Md. Anik Islam (RUET)	
AM-21	PLC Based Automatic Railway Gate Control & Remote Monitoring System Khandaker Marsus (RUET, Bangladesh) Md. Selim Habib (RUET) Mohammad Ezaz Hossain (RUET) Md. Reazuddin (RUET) <u>Md. I.H. Bhuiyan</u> (RUET)	

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IE-09	Cell Formation in a Batch Oriented Production System Using a Local Search Heuristic with a Genetic Algorithm: An Application of Cellular Manufacturing System <u>Md. Ariful Islam</u> (RUET, Bangladesh) Sarojit Kumar Biswas (RUET) Md. Rashedul Islam (RUET) Md. Mosharraf Hossain (RUET)	
IE-12	Application of Six Sigma Philosophy For Reducing Process Variability: A DMAIC Model <u>Akhtar Ferdous Khan Asif</u> (RUET, Bangladesh) Ripon Kumar Chakraborty (RUET)	
IE-17	An Analytical Study of Hazards And Risks In Concern Of Shipbuilding Industry Farjana Nur (KUET, Bangladesh) <u>Dipa Rani Paul</u> (KUET) Md. Ahasan Habib (KUET)	
IE-19	Implementation of Production Control Tools in Garments Manufacturing Process Focusing Printing System. <u>Md. Bony Amin</u> (KUET, Bangladesh) Adnan Islam (KUET) Syimun Hasan Mehedi (KUET) Sahea Dul Bashar (KUET) Md. Ahasa Habib (KUET)	
IE-23	Simulation and Optimization of Natural Gas Processing Plant <u>Sukanta Kumar Mondal</u> (SUST, Bangladesh) M. Rakib Uddin (SUST) A. K. Azad (CQU, Australia)	
IE-27	Implementation of Lean Philosophy and Improvement of Sigma Level in Cutting Section According to DMAIC Approach Md. Morshedul Alam (RUET, Bangladesh) <u>Md. Sanowar Hossain</u> (RUET)	
IE-28	Effect of External Magnetic Field on Drilled Hole Quality During Drilling Operation <u>Anayet U. Patwari</u> (IUT, Bangladesh) Shafi Noor (IUT) Md. S.I. Chowdhury (IUT) Towfiq ullah (IUT)	
IE-29	Advanced Functionalization of Textiles by Nanofinishing: A Review Md. Milon Hossain (KUET, Bangladesh) Md. Ahsanul Karim Biswas (TU, Germany) <u>Md. Shohan Parvez</u> (MBSTU, Bangladesh) Sudipta Bain (MBSTU)	
IE-31	Smart Textiles-New possibilities in Textile Engineering <u>Subrata Chandra Das</u> (MBSTU, Bangladesh) Debasree Paul (MBSTU) Sk. Md. Mahamudul Hasan (MBSTU) Nasif Chowdhury (MBSTU) Md. Eanamul Haque Nizam (MBSTU)	
IE-34	Tribological Research and Industrial Applications in Bangladesh <u>Sobahan Mia</u> (KUET, Bangladesh) Md. Mahmudul Hassan (KUET) Dipayan Mondal (KUET) and Muhsia Tabassum (KUET)	

IE-39	Epistemic Uncertainty Study of the Conceptual Phase of Product Development by Multi-Valued Logic and Information Content <u>Md Mamunur Rashid</u> (BIM, Bangladesh) AMM Sharif Ullah (KIT, Japan) Jun'ichi Tamaki (KIT) M.A Rashid Sarker (BUET, Bangladesh)	
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Paper ID	Technical Session – XI Material Science-03 02 November 2013 Saturday 10:50 AM-1:00 PM Venue: Room # C Chair: Prof. M. Shahidur Rahman (RU, Bangladesh) Co-Chair: Prof. Md. Abdul Maleque (IIUM, Malaysia)	Page #
MS-04	Performance of Recycled Coarse Aggregate in Concrete Mix B. Ahmed (RUET, Bangladesh) <u>M. A. A. Mahmood</u> (RUET) H. M. Rasel (RUET)	
MS-06	Effect of Clay and Moisture Content on the Properties of Molding Sand Tasmia Zaman (RUET, Bangladesh) <u>M. A. A. Mahmood</u> (RUET) A. Hafiz Zaman (RUET)	
MS-08	Improved Dielectric Properties of La/Mn Codoped Bismuth Titanate Ceramic M. S. Parvez (RU, Bangladesh) <u>M. Bodiul Islam</u> (RUET, Bangladesh)	
MS-18	Preparation and Properties of Chemically Reduced Cu and Ag Nanoparticles M. Julkarnain (RU, Bangladesh) <u>Arup Kumar Mondal</u> (RU) Md. Mizanur Rahman (RU) Md. Sohel Rana (RU)	
MS-24	Micro Responses of Sheared Granular Materials using 3D DEM Md. Mahmud Sazzad (RUET, Bangladesh) <u>Toufiq-E-Alahy</u> (RUET) Shashanka Biswas (RUET)	
MS-31	Friction Coefficient of Copper Mating with Smooth and Rough Mild Steel Counterfaces Mohammad A. Chowdhury (DUET, Bangladesh) D. Muhammad Nuruzzaman (UP, Malaysia) <u>B. K. Roy</u> (DUET) Rajib Nandee (EKCL, Bangladesh)	
MS-35	Selection of Constitutive Models for Concrete in simulating Reinforced Concrete Members <u>Sharmin Reza Chowdhury</u> (AUST, Bangladesh) Md. Shahid Mamun (AUST) Wahid Hassan (EUB, Bangladesh)	
MS-41	An Iteration Method for Near-tip singular fields of a crack in a Power-law Hardening Material Using Asymptotic Analysis Md. Arefin Kowser (DUET, Bangladesh) <u>Md. Mahiuddin</u> (DUET)	
MS-42	Ceramics in Bangladesh: Its Recent Evolution and Future Prospect <u>M. A. A. Mahmood</u> (RUET, Bangladesh) M. S. Rahman (RUET) Tasmia Zaman (RUET)	
MS-44	Implementation of Computer-controlled Electrodeposition Methodology for Depositing Metal Oxide Thin Films <u>Md. Hasibul Islam</u> (RUET, Bangladesh) Md. Faruk Hossain (RUET) Shuva Paul (RUET) Mohua Fardousi (RUET)	

MS-45	Investigation of Optical Properties of ZnO Thin Films Prepared by Sol-gel Method <u>Shuva Paul</u> (RUET, Bangladesh) Md. Faruk Hossain (RUET)	
MS-47	Design and Fabrication of handmade screen printing for thin film applications <u>Hasnara Hasi</u> (RUET, Bangladesh) Md. Faruk Hossain (RUET) Mst. Rebeka Sultana (RUET) Robin Khan (RUET) Hasibul Islam (RUET)	
Paper ID	Technical Session – XII Energy Technology-II 02 November 2013 Saturday 10:50 AM- 1:00 PM Venue: Room # D Chair: Prof. M.N.A. Howlader (IIUM, Malaysia) Co-Chair: Prof. Dr. Md. Rafiqul Islam Sheikh (RUET)	Page #
ET-05	Effect of Energy Efficiency Design Index on Container Vessel Design Md. Shahjada Tarafdar (BUET, Bangladesh) <u>S M Rashidul Hasan</u> (SNAL, Bangladesh)	
ET-06	Design and Development of a Vertical Axis Low Speed Wind Generator <u>Mr. Rupesh Chandra Roy</u> (BCSIR, Bangladesh) Most. Hosney Ara Begum (BCSIR) Muhammad Riazul Hamid (AUST, Bangladesh)	
ET-07	Energy Saving Brick from Rice Husk Ash <u>Md.Latiful Khabir</u> (BUET, Bangladesh) Md. Masrul Huda (BUET) Ruhul Amin (BUET) Sarker kamruzzaman (BCSIR, Bangladesh)	
ET-09	Better Energy Utilization : A Solution of Power Crisis in Bangladesh <u>Omar Faroque</u> (NU, Bangladesh) Mahadi Hasan Masud (RUET, Bangladesh) Mohammad U. H. Joardder (QUT, Australia)	
ET-16	Modeling and Optimization of Variable Speed Wind Turbine Using Permanent Magnet Synchronous Generator M.R.I. Sheikh (RUET, Bangladesh) <u>Zinat Tasneem</u> (RUET)	
ET-18	Design, Fabrication and Performance Study of a Plastic Waste to Oil Converter Asma-UI-Husna (RUET, Bangladesh) <u>Farzana Nahid</u> (RUET) Shahina Imam (RUET) Mohammed Rofiqul Islam (RUET) M. A. Kader (RUET)	
ET-22	Modeling and Controlling of Directly Driven Wind Turbine with Permanent Magnet Synchronous Generator M.R.I. Sheikh (RUET, Bangladesh) <u>Zinat Tasneem</u> (RUET)	
ET-23	Prospects of Bagases Gasification Technolgoy for Electricity Genration in Sugar Industries in Bangladesh <u>Barun Kumar Das</u> (RUET, Bangladesh) S.M. Najmul Haque (RUET) Md. Sazan Rahman (RUET) M.A. Kader (RUET)	
ET-26	Study of Pyrolysis Products-Oil-Bitumene Rocks Western Kazakhstan <u>M.N. Abdikarimov(KazNTU)</u> R.H. Turgumbaeva (KazNPU)	
ET-31	Characterization and Improvement of Char Product Obtained from Pyrolysis Conversion of Solid Tire Wastes into Liquid Fuel <u>M.S. Hossain</u> (RUET, Bangladesh) M.R. Islam (RUET) H. Haniu (KIT, Japan)	
ET-33	Power Factor Improvement of Compact Fluorescent Lamp Mamun Hossen (RUET) Md. Zillur Rahman (RUET) <u>Julkar Nain</u> (RUET)	

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RT-04	<p>Group Velocity Dispersion Analysis of Rajshahi Earthquake for Studying the Crustal Thickness <u>Md. Omar Faruk</u> (RU, Bangladesh) <u>Syed Mustafizur Rahman</u> (RU)<u>Md. Abul Hashem</u> (RU) <u>Mumnunul Keramat</u> (RU, Rajshahi)</p>	
RT-08	<p>Effects of Soil Salinity on Crop Production rate of the South West Zone of Bangladesh <u>B. Ahmed</u> (RUET, Bangladesh) <u>H. M. Rasel</u> (RUET) <u>M. R. Hasan</u> (RUET) <u>M. S. U. Miah</u> (RUET)</p>	
RT-12	<p>Environmental Impact Assessment of Madhyapara Granite Mine, North West Bangladesh <u>Md. Nahid Nowsher</u> (JSTU, Bangladesh) <u>H. M. Ratul-Al-Istiaq</u> (JSTU) <u>Tanvir Rahman Mahid</u> (JSTU) <u>Bapi Biswas</u> (JSTU) <u>S. M. Azmol Huda</u> (JSTU) <u>Mohammad Tofayal Ahmed</u> (JSTU) <u>H.M. Zakir Hossain</u> (JSTU)</p>	
RT-16	<p>Impact of Climate Change on Water Supply and Sanitation: A Case Study in Char Area <u>Selim Ahmed</u> (KUET, Bangladesh) <u>Kh. Mahbub Hassan</u> (KUET) <u>Md. Hasibur Rahman Lemon</u> (KUET)</p>	
RT-18	<p>Evaluation of Subsurface Geologic Formation in the Barind Tract, Rajshahi, Bangladesh <u>M.A.F.M. Rashidul Hasan</u> (RU, Bangladesh) <u>R. Yasmin</u> (RU, Bangladesh) <u>S. Shahid</u> (UTM, Malaysia) <u>Mumnunul Keramat</u>(RU, Bangladesh)</p>	
RT-22	<p>Study of River Bank Sedimentation Using Permeable Structural Measures <u>Md. Lutfor Rahman</u> (RRI, Faridpur, Bangladesh) <u>Md. Showkat Osman</u> (DUET)</p>	
RT-23	<p>Zinc Calume Profile Steel Sheet for Roofing Element <u>S. M. Zahurul Islam</u> (RUET, Bangladesh) <u>Abang - Abdullah Abang Ali</u> (UPM, Malaysia)</p>	
RT-25	<p>Strip Tillage Seeding Technique: A Better Option for Utilizing <u>Md. Israil Hossain</u> (RWRC, Bangladesh) <u>M. K. Gathala</u> (RWRC Bangladesh) <u>T.P. Tiwari</u> (CIMMYT ,Bangladesh)</p>	

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AM-P06	Advance Railway Control System <u>Md. Rokibul Hossain</u> (RUET, Bangladesh) <u>Md. Sharafat Ali</u> (RUET) <u>Md. Nazmul Haque</u> (RUET)	
AM-P17	Automation of Belt Conveyor for Carrying Products <u>Shah Ali Mollah</u> (KUET, Bangladesh) <u>Md. Sihabun Sakibul Haque</u> (KUET) <u>Aminul Islam</u> (KUET) <u>Md. Zahid Hossain</u> (KUET) <u>Farjana Nur</u> (KUET) <u>Dipa Rani Paul</u> (KUET)	
AM-P19	Program for Control and Operation of PUMA Robot by ‘C’ and Microcontroller <u>Tasnuba Binte Nur</u> (CAT, Dhaka, Bangladesh)	
ET-P08	Reducing the Wastage of Water by Efficient Water Faucet <u>Ifrat Jahan Tisha</u> (AUST, Bangladesh) <u>Nafis Faiyaz</u> (AUST) <u>Moniruzzaman Peash</u> (AUST)	
ET-P11	Acquisition of Sustainable Economic Growth through Proper Utilization of Renewable Energy Sources – A Study on Various Aspects, Challenges and Prospects of RE in Bangladesh <u>Hosnay Nasrin</u> (NU, Bangladesh)	
RT-P01	An Overview of Control Systems applied to a Gas Process Plant <u>Mohammad Ariful Islam</u> (SGFL, Sylhet, Bangladesh)	
RT-P02	A Comparative Study of Instrumentation Systems of a Gas Process Plant <u>Mohammad Ariful Islam</u> (SGFL, Sylhet, Bangladesh)	
RT-P21	Effect of Climate Change on the Coastal Area in Bangladesh <u>S.M. Abdullah Al Faruq</u> (KUET, Bangladesh) <u>Md. Zohrul Islam</u> (KUET) <u>Hasan Mahmood</u> (KUET)	
RT-P24	Water Quality in Market Drains of Khulna City Area: Sustainable Market Waste Management Perspective <u>Md. Atiqur Rahman</u> (KUET, Bangladesh) <u>Kh. Mahbub Hassan</u> (KUET) <u>Md. Iftekar Alam</u> (KUET) <u>Md. Abdul kader</u> (KUET)	
TE-P10	Room Heating by Energy Transfer and its Performance <u>Md. Foysal Ahmed</u> (CUET, Bangladesh) <u>K. M. Anamul Hossain</u> (CUET) <u>A. Z. M. Shariful</u> (CUET)	
ET-P10	A solution to the power crisis using the coastal zone of Bangladesh <u>K.M. Masnoon Haider</u> (UAP, Bangladesh) <u>Arnob Saha</u> (UAP) <u>Md. Tohidul Islam</u> (UAP)	

ET-P19	Feasibility of Wind Power Technology Schemes in St. Martin's Island of Bangladesh <u>Rasedul Hasan</u> (BU, Bangladesh) Md. Abu Saaklayen (BU) Farjana Nasim (BU) Md. Tajul Islam (Samsung R & D center, Bangladesh) Md. Abu Shahab Mollah (AUST, Bangladesh)	
IE-P03	Customer Behavioral Segmentation at Banking System using Principal Components Analysis and Artificial Neural Network: The Quality Management <u>Md. Sarwar Kamal</u> (TUB, Chittagong, Bangladesh) Mohd. Kamal Uddin (TUB)	
IE-P04	A Case Study: Supply Chain Uncertainties and Required Integration Based on Shared Resources in The Chemical Industries <u>Abu Md. Saifuddoha</u> (KUET, Bangladesh) Md. Saiful Islam (KUET) Mahabubur Rahman (KUET) Kismot Abdul Quayum (KUET)	
IE-P06	Development of Human Machine Interfacing (HMI) Software for Force Circulated Wood Pulp Digester Rupesh Chandra Roy (PP & PDC, Bangladesh) Sarker Kamruzzaman (Bangladesh) <u>Md. Badrul Abedin</u> (Bangladesh)	
IE-P07	Application of Value Stream Mapping in Cement Industry's Supply Chain and Analyzing Results by Fuzzy Inference System <u>Abu Md. Saifuddoha</u> (KUET, Bangladesh) Md. Ahasan Habib (KUET) Sohana Yasmin Sumi (KUET)	
IE-P13	Operation Management Techniques & Applications in Bangladeshi Industry <u>Kazi Arif-Uz-Zaman</u> (KUET, Bangladesh) Md. Ahasan Habib (KUET) Md. Abdur Rauf (KUET)	
IE-P14	Opportunities for Lean- Six Sigma in Bangladeshi Industry <u>Kazi Arif-Uz-Zaman</u> (KUET, Bangladesh) Md. Ahasan Habib (KUET) Kazi Saifuzzaman Palash (KUET) Mahmud Parvez (KUET)	
IE-P15	Recent Trends and Issues of Sustainability in Battery Manufacturing Industries of Bangladesh Kazi Arif-Uz-Zaman (KUET, Bangladesh) Md. Ahasan Habib (KUET) <u>Subrata Talapatra</u> (KUET) Mostafa Lutfi (KUET) Md. Enamul Kabir (KUET)	
IE-P16	Development of Adjustable Pattern for Foundry Shop <u>Shah Ali Mollah</u> (KUET, Bangladesh) Md. Jannatul Ferdouse (KUET) Rezaur Rahman Rakib (KUET)	
IE-P25	Recycle of Waste Polythene and use this Recycle Polythene to Produce Construction Block <u>Most. Hosney Ara Begum</u> (BCSIR, Dhaka, Bangladesh) Mr. Rupesh Chandra Roy (BCSIR) Nahid Sharmin (BCSIR)	
IE-P36	Assessment of Environmental Pollution of Gaseous Emissions of Chemical Plants by Mathematical Modelling R.H. Turgumbaeva (KazNPU) <u>M.N. Abdikarimov</u> (KazNTU)	
IE-P37	Quantification and Physical Categorization of Waste Generated by Different Healthcare Entities in Chittagong Metropolitan Area, Bangladesh <u>Ohidul Alam</u> (CU, Bangladesh) Mohammad Mosharraf Hossain (CU)	