

Program at a Glance

ICME2009, 26-28 December 2009, BUET, Dhaka, Bangladesh

Time	26 December 2009	27 December 2009	28 December 2009
9:00 - 9:30	Registration		
9:30 - 11:00 (90 min)	Opening Ceremony at BUET Auditorium	Session VIII (Keynote) at Venue A KN3	Session XVIII (Keynote) at Venue A KN4 & KN5
11:00 - 11:30	Tea Break	Tea Break	Tea Break
11:30 - 13:00 (90 min)	Session I (Keynote) at Venue A KN1 & KN2	Session IX (TH) at Venue A TH-08, 09, 10, 11, 12, 13 Session X (RT) at Venue- B RT-04, 15, 16, 37, 38, 39 Session XI (AM) at Venue C AM-08, 15, 16, 17, 18, 19	Session XIX (RT) at Venue A RT-25, 26, 42, 44, 49, 50 Session XX (TH) at Venue B TH-29, 30, 31, 32, 33, FM-05, 24, 37 Session XXI (RT) at Venue C RT- 24, 27, 28, 29, 30, 47, 55
13:00-14:00	Lunch Break	Lunch Break	Lunch Break
14:00 – 15:45 (105 min)	Session II (AM) at Venue A AM-01, 02, 04, 05, 07, 09, 10 Session III (FM) at Venue B FM-01, 02, 03, 04, 06, 28, 32 Session IV (TH) at Venue C TH-01, 02, 03, 04, 05, 06, 07	Session XII (FM) at Venue A FM-15, 16, 17, 18, 19, 20, 21, 33, 34 Session XIII (TH) at Venue B TH-14, 15, 16, 17, 18, 19, 20 Session XIV (RT) at Venue C RT-12, 13, 18, 20, 21, 22, 23	Session XXII (RT) at Venue A RT-01, 02, 03, 05, 08, 14, 17, AM-03 Session XXIII (Misc.) at Venue B RT-06, 43, 51, 52, 53, 54, AM-06, 32 Session XXIV(Misc.) at Venue C RT-07, 09, 10, 11, 19, 40, 45, 48
15:45 - 16:00	Tea Break	Tea Break	Tea Break
16:00 - 18:00 (120 min)	Session V (RT) at Venue A RT-31, 32, 33, 34, 35, 36, 41, 46 Session VI (AM) at Venue B AM-11, 12, 13, 14, 28, 29, 30, 31 Session VII (FM) at Venue C FM-07, 08, 09, 10, 11, 12, 13, 14	Session XV (AM) at Venue A AM-20, 21, 22, 23, 24, 25, 26, 27 Session XVI (FM) at Venue B FM-22, 23, 25, 26, 27, 29, 30, 31, 35, 36 Session XVII (TH) at Venue C TH-21, 22, 23, 24, 25, 26, 27, 28	Closing Ceremony at Venue A

AM: Applied Mechanics; FM: Fluid Mechanics;

TH: Thermal Engineering;

RT: Related Topics

A: Council Building;

B: Library (ME Dept), EME Building;

C: M. Sc. Room (ME Dept), EME Building

Program Schedule

ICME2009, 26-28 December 2009, BUET, Dhaka, Bangladesh

INAUGURAL SESSION

26 December 2009 (9:30 to 11:00 AM)

Venue: BUET Auditorium

Session I (Keynote Lectures)

Date: 26 December 2009 (Saturday)

Venue: A (Council Building, BUET)

11:30 – 13:00

Session Chair: Professor MH Khan, Former VC, BUET

11:30 – 12:15

KN1:

SMALL ENERGY TECHNOLOGY FOR EMPOWERING RURAL
POOR: BANGLADESH CONTEXT

Speaker: *Prof. SM Nazrul Islam*

Department of Mechanical Engineering, BUET

12:15 – 13:00

KN2:

THERMAL MANAGEMENT OF CRYOGENIC STORAGE VESSELS
TO PREVENT BOIL OFF

Speaker: *Prof. Muhammad Mustafizur Rahman*

Department of Mechanical Engineering, University of South Florida

Session II (Technical Papers: AM)

Date: 26 December 2009 (Saturday)

Venue: A (Council Building, BUET)

14:00 – 15:45 Session Chair: Dr. M Mujibur Rahman, Consultant, USA **7 Papers**
Co-Chair: Prof. SR Ahmed, Dept of ME, BUET **@ 15 minutes**

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-AM-01	14:00 – 14:15	EVALUATION OF COMPOSITE HARDNESS AND WEAR MECHANISM OF COPPER THIN FILM COATING <i>Sumaiya Islam, Raafat N. Ibrahim</i> <i>Monash University, Australia</i>
ICME09-AM-02	14:15 – 14:30	ANALYSIS ON SOUND ABSORPTION OF NATURAL COIR FIBER USING DELANY-BAZLEY MODEL <i>Md. Ayub, Mohd Jailani Mohd Nor, Nowshad Amin, Rozli Zulkifli, Mohammad Hosseini Fouladi, Ahmed R. Ismail</i> <i>National University of Malaysia, Malaysia</i>
ICME09-AM-04	14:30 – 14:45	A FINITE ELEMENT STUDY OF ELASTIC-PLASTIC HEMISPHERICAL CONTACT BEHAVIOR AGAINST A RIGID FLAT UNDER VARYING MODULUS OF ELASTICITY AND SPHERE RADIUS <i>Biplab Chatterjee and Prasanta Sahoo</i> <i>Jadavpur University, India</i>
ICME09-AM-05	14:45 – 15:00	EFFECT OF STRAIN HARDENING ON ELASTIC-PLASTIC CONTACT BEHAVIOUR OF A SPHERE AGAINST A RIGID FLAT – A FINITE ELEMENT STUDY <i>Biplab Chatterjee, Dipankar Adhikary and Prasanta Sahoo</i> <i>Jadavpur University, India</i>
ICME09-AM-07	15:00 – 15:15	VARIATIONAL FORMULATION BASED POST-ELASTIC ANALYSIS OF ROTATING DISKS WITH VARYING THICKNESS <i>Shubhankar Bhowmick, Dipten Misra and Kashi Nath Saha</i> <i>Jadavpur University, India</i>
ICME09-AM-09	15:15 – 15:30	SYNTHESIS OF Mg-SiC COMPOSITES USING UNDERWATER SHOCK WAVE BY CHANGING MILLING PARAMETERS <i>A. Nayeem Faruqui, Palavesamuthu Manikandan, Takashi Sato, Kazuyuki Hokamoto</i> <i>Kumamoto University, Japan</i>
ICME09-AM-10	15:30 – 15:45	VIBRATION CONTROL OF SMART COMPOSITE SHELL STRUCTURES USING GENETIC ALGORITHM <i>Debabrata Chakraborty and Tarapada Roy</i> <i>IIT Guwahati, India</i>

Session III (Technical Papers: FM)

Date: 26 December 2009 (Saturday)

Venue: B (ME Departmental Library, EME Building, BUET)

14:00 – 15:45 Session Chair: Prof. Quamrul Islam, Dept of ME, BUET

7 Papers

Co-Chair: Dr. M Mamun, Dept of ME, BUET

@15 minutes

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-FM-01	14:00 – 14:15	VIRTUAL IMPACTORS: A NOBLE DEVICE TO GENERATE HIGH CONCENTRATION MONODISPERSE AEROSOLS <i>Md. Shamim Akhter, Md. Ariful Islam and M.R. I. Sarker</i> <i>RUET, Bangladesh</i>
ICME09-FM-02	14:15 – 14:30	PREDICTION OF STANDPIPE PRESSURE USING REAL TIME DATA <i>Dipankar Chowdhury, Pål Skalle and Mahbubur Rahman</i> <i>Norwegian University of Science & Technology, Norway</i>
ICME09-FM-03	14:30 – 14:45	STUDY ON REAL GAS FLOWS THROUGH A CRITICAL NOZZLE <i>Mamun Mohammad, Junji Nagao, Shigeru Matsuo, Tokitada Hashimoto and Toshiaki Setoguchi</i> <i>BUET, Bangladesh</i>
ICME09-FM-04	14:45 – 15:00	EXPERIMENTAL STUDY OF FRACTAL TURBULENCE <i>S.M. Muztaba Salim, F.C.G. Nicolleau and M. Borkowski</i> <i>University of Sheffield, UK</i>
ICME09-FM-06	15:00 – 15:15	THE EFFECT OF GAS FLOW RATE ON DEPOSITION RATE USING CVD <i>M A Chowdhury, D M Nuruzzaman, M L Rahaman and M S Islam</i> <i>DUET, Bangladesh</i>
ICME09-FM-28	15:15 – 15:30	A MODIFIED EULERIAN-LAGRANGIAN APPROACH FOR SOLVING MULTI-PHASE FLOW APPLIED TO A COMPACT DOWN-HOLE SUBSEA GAS-LIQUID SEPARATOR <i>Shakil Ahmed, Gerardo Sanchez Soto, Jamal Naser and Edson Nakagawa</i> <i>Swinburne University of Technology, Australia</i>
ICME09-FM-32	15:30 – 15:45	NUMERICAL STUDY ON MIXING FLOW FIELD WITH DIFFERENT ANGLES INTO A SUPERSONIC FLOW <i>Rafiqul Hoque, Mohammad Ali and Quamrul Islam</i> <i>BUET, Bangladesh</i>

Session IV (Technical Papers: TH)

Date: 26 December 2009 (Saturday)

Venue: C (ME Department M.Sc. Room, EME Building, BUET)

14:00 – 15:45 **Session Chair: Prof. A Razzaq Akhanda, IUT** **7 Papers**
Co-Chair: Prof. CM Feroz, Dept of ME, BUET **@15 minutes**

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-TH-01	14:00 – 14:15	EFFECTS OF EGR & MAGNETIC FUEL TREATMENT SYSTEM ON ENGINE EMISSION CHARACTERISTICS IN A BIO FUEL ENGINE <i>P. Govindasamy and S. Dhandapani</i> <i>Kongu Engineering College, India</i>
ICME09-TH-02	14:15 – 14:30	NATURAL CONVECTION AND RADIATION IN CIRCULAR AND ARC CAVITY <i>Naheed Ferdous, Md. Tofiqul Islam, Md. Arif Hasan Mamun+</i> <i>+</i> <i>BUET, Bangladesh</i>
ICME09-TH-03	14:30 – 14:45	PROSPECTS OF BIOMASS GASIFICATION AS AN ENERGY SOURCE IN BANGLADESH <i>M M Hasan, N N Mustafi and M. A Hashem</i> <i>RUET, Bangladesh</i>
ICME09-TH-04	14:45 – 15:00	ROLE OF OXYGENATED FUEL TO REDUCE DIESEL EMISSIONS: A REVIEW <i>Md. Nurun Nabi, Dhandapani Kannan, Johan Einar Hustad and Md. Mustafizur Rahman</i> <i>NTNU, Norway</i>
ICME09-TH-05	15:00 – 15:15	LARGE SCALE THERMAL-SOLID COUPLING ANALYSIS USING INEXACT BALANCING DOMAIN DECOMPOSITION <i>A M Mohammad Mukaddes and Ryuji Shioya, SUST, Bangladesh</i>
ICME09-TH-06	15:15 – 15:30	BIODIESEL FROM JATROPHA OIL AS AN ALTERNATIVE FUEL FOR DIESEL ENGINE <i>Mohammad Mashud, Md. Mizanur Rahman Md. Roknuzzaman and Asadullah Al Galib</i> <i>KUET, Bangladesh</i>
ICME09-TH-07	15:30 – 15:45	DESIGN, CONSTRUCTION AND PERFORMANCE TEST OF A SYNCHRONIZED MULTI-SPARK MODULE FOR ELECTRONIC IGNITION DEVICE <i>Mohammad Mashud, Md. Hasan Ali and Sabbir Hossain Khan</i> <i>KUET, Bangladesh</i>

Session V (Technical Papers: RT)

Date: 26 December 2009 (Saturday)

Venue: A (Council Building, BUET)

16:00 – 18:00 **Session Chair: Prof. Anwarul Azim, Former VC, DUET** **8 Papers**
Co-Chair: Dr. Abdullahil Azeem, Dept of IPE, BUET **@ 15 minutes**

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-RT-31	16:00 – 16:15	PERFORMANCE EVALUATION OF CARBIDE INSERTS IN TURNING C-60 STEEL AND 42CrMo4 STEEL UNDER HIGH-PRESSURE COOLANT (HPC) CONDITION <i>M. Kamruzzaman and N. R. Dhar, BUET, Bangladesh</i>
ICME09-RT-32	16:15 – 16:30	EFFECTS OF HIGH-PRESSURE COOLANT (HPC) JET ON TEMPERATURE, CHIPS AND FORCES IN TURNING AISI 1060 STEEL AND AISI 4320 STEEL <i>M. Kamruzzaman and N. R. Dhar, BUET, Bangladesh</i>
ICME09-RT-33	16:30 – 16:45	EVALUATION OF PROCESS CAPABILITY USING FUZZY INFERENCE SYSTEM <i>Zakia Farhana, Md. Ahasan Habib ,Hafsa Binte Mohsin, Syed Mithun Ali, Sanjoy Kumar Paul, BUET, Bangladesh</i>
ICME09-RT-34	16:45 – 17:00	AN INDUSTRIAL APPLICATION OF DMECA APPROACH TO MANAGEMENT PROCESS ANALYSIS <i>Azizur Rahman, Md. Kutub Uddin., KUET, Bangladesh</i>
ICME09-RT-35	17:00 – 17:15	APPLICATION OF VIKOR BASED TAGUCHI METHOD FOR MULTI-RESPONSE OPTIMIZATION: A CASE STUDY IN SUBMERGED ARC WELDING (SAW) <i>Sri Ajay Biswas, Dr. Saurav Datta, Dr. Swapan Bhaumik, Prof. Gautam Majumdar, NIT, INDIA</i>
ICME09-RT-36	17:15 – 17:30	WAREHOUSE DESIGN: A SET THEORETIC APPROACH <i>Mosammat Ferdaushi Sultana, Dr. Md. Kutub Uddin Wartsila Bangladesh Ltd, Bangladesh</i>
ICME09-RT-41	17:30 – 17:45	MEASURING BULLWHIP EFFECT IN A MULTISTAGE COMPLEX SUPPLY CHAIN <i>Tahera Yesmin, Dr. M. Ahsan AKhtar Hasin and Farhana Afreen Proma BUET, Bangladesh</i>
ICME09-RT-46	17:45 – 18:00	TIME STUDY OF A FURNITURE INDUSTRY: A CASE STUDY AT NAVANA FURNITURE INDUSTRY <i>Seratul Jannat, Md Mazharul Hoque, Nazia Sultana, Israt Jahan Chowdhury BUET, Bangladesh</i>

Session VI (Technical Papers: AM)

Date: 26 December 2009(Saturday)

Venue: B (ME Departmental Library, EME Building, BUET)

16:00 – 18:00 Session Chair: Prof. AKM Masud, Dept of IPE, BUET

8 Papers

Co-Chair: Dr. AK Mozumder, Dept of ME, BUET

@15 minutes

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-AM-11	16:00 – 16:15	WATER DISSOCIATION AND ADSORPTION ON NI-CR (111) BINARY ALLOY SURFACE AT 325 ⁰ C <i>Nishith Kumar Das and Tetsuo Shoji</i> <i>Tohoku University, Japan</i>
ICME09-AM-12	16:15 – 16:30	MECHANICAL AND THERMAL CHARACTERIZATION OF CNF-FILLED POLYESTER NANOPHASED COMPOSITE <i>Mohammad Kamal Hossain, Muhammad Enayet Hossain, Mahesh Hosur and Shaik Jeelani</i> <i>Tuskegee University, USA</i>
ICME09-AM-13	16:30 – 16:45	EVALUATION OF THERMOELASTIC PROPERTIES OF CARBON NANOTUBE-BASED COMPOSITES USING FINITE ELEMENT METHOD <i>Sushen Kirtania and Debabrata Chakraborty</i> <i>Tezpur University, India</i>
ICME09-AM-14	16:45 – 17:00	A COMPARATIVE STUDY OF TRACK BUCKLING PARAMETERS OF CONTINUOUS WELDED RAIL <i>Shah Sanjar Nafis Ahmad, Nirmal Kumar Mandal and Gopinath Chattopadhyay</i> <i>Centre for Railway Engineering, Australia</i>
ICME09-AM-27	17:45 – 18:00	MODELLING AND ANALYSIS OF A FEMORAL NECK PROSTHESIS <i>A.S.Blicblau and M.Lew</i> <i>Swinburne University of Technology, Australia</i>
ICME09-AM-28	17:00 – 17:15	NONLINEAR ANALYSIS OF SHOCK ABSORBERS <i>Muhammad Ashiqur Rahman, Ashraf Uddin Ahmed, Muhammad Sayem Uddin</i> <i>BUET, Bangladesh</i>
ICME09-AM-29	17:15 – 17:30	HARNESSING RAINDROP ENERGY IN BANGLADESH <i>PV Biswas, MA Uddin, MA Islam, MAR Sarkar, VG Desa, MH Khan and AMA Huq</i> <i>BUET, Bangladesh</i>
ICME09-AM-30	17:30 – 17:45	STRESS ANALYSIS OF STEEL PLATE HAVING HOLES OF VARIOUS SHAPES, SIZES AND ORIENTATIONS USING FINITE ELEMENT METHOD <i>T. Hasan, A. Das, T. Rahman, S. C. Chowdhury, Md. T. Alam</i> <i>BUET, Bangladesh</i>

Session VII (Technical Papers: FM)

Date: 26 December 2009 (Saturday)

Venue: C (ME Department M.Sc. Room, EME Building, BUET)

16:00 – 18:00	Session Chair: Prof. AC Mandal, Dept of ME, BUET Co-Chair: Dr. Shhariar Iqbal, Dept of NAME, BUET	8 Papers @15 minutes
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<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-FM-07	16:00 – 16:15	ANALYSIS OF WEIBULL PARAMETERS FOR THE THREE MOST PROSPECTIVE WIND SIDES OF BANGLADESH <i>M. M. Alam, A. K. Azad</i> <i>BUET, Bangladesh</i>
ICME09-FM-08	16:15 – 16:30	EXPERIMENTAL INVESTIGATION ON FLUID FLOW SEPARATION CONTROL <i>Mohammad Mashud, Abdullah Al Bari and T. P. Bhowmick</i> <i>KUET, Bangladesh</i>
ICME09-FM-09	16:30 – 16:45	A COMPUTATIONAL STUDY OF TRANSONIC MOIST AIR FLOW AROUND A SYMMETRIC DISK BUTTERFLY VALVE <i>A. B. M. Toufique Hasan, Mohammad Mamun, Shigeru Matsuo and Toshiaki Setoguchi</i> <i>Saga University, Japan</i>
ICME09-FM-10	16:45 – 17:00	INDUCED DRAG REDUCTION FOR MODERN AIRCRAFT WITHOUT INCREASING THE SPAN OF THE WING BY USING WINGLET <i>Mohammad Mashud, Md. Hasan Ali, Abdullah-Al-Nahian and S.M.S. Selim</i> <i>KUET, Bangladesh</i>
ICME09-FM-11	17:00 – 17:15	NUMERICAL SIMULATION OF A CONFINED LAMINAR DIFFUSION FLAME WITH VARIABLE PROPERTY FORMULATION <i>B. K. Mandal, A.K. Chowdhuri and A. J. Bhowal</i> <i>Bengal Engineering and Science University, India</i>
ICME09-FM-12	17:15 – 17:30	NUMERICAL SIMULATIONS OF SUPERSONIC MICROJETS <i>Alam Miah Md. Ashraf, Alam Md. Mahabubul, Matsuo Shigeru, Setoguchi Toshiaki And Kim Heuy Dong</i> <i>Saga University, Japan</i>
ICME09-FM-13	17:30 – 17:45	COMBINED EFFECTS OF CURVATURE AND TORSION ON FLUID FLOW IN A HELICAL RECTANGULAR DUCT <i>Prabir Kumar Bhattacharjee and Md. Mahmud Alam</i> <i>Khulna University, Bangladesh</i>
ICME09-FM-14	17:45 – 18:00	ENTRANCE FLOW THROUGH ROTATING CURVED PIPE OF CIRCULAR CROSS-SECTION <i>M. A. Masud and Md. Mahmud Alam</i> <i>Khulna University, Bangladesh</i>

Session VIII (Keynote Lecture)

Date: 27 December 2009 (Sunday)

Venue: A (Council Building, BUET)

9:30 – 11:00 Session Chair: Prof M Anwar Hossain, VC, AUST

9:30 – 10:15

KN3:

TRANSONIC TONES AND EXCESS BROADBAND NOISE IN OVEREXPANDED SUPERSONIC JETS

Speaker: Dr. Khairul B.M.Q. Zaman

NASA Glenn Research Center

Session IX (Technical Papers: TH)

Date: 27 December 2009 (Sunday)

Venue: A (Council Building, BUET)

11:30 – 13:00 Session Chair: Prof. M Imtiaz Hossain, VC, IUT

6 Papers

Co-Chair: Prof. M Ehsan, Dept of ME, BUET

@ 15 minutes

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-TH-08	11:30 – 11:45	INTELLIGENT AIR-CUSHION SYSTEM OF SWAMP PEAT VEHICLE CONTROL: FUZZY LOGIC TECHNIQUE <i>A. Hossain, A. Rahman, A.K.M Mohiuddin International Islamic University Malaysia</i>
ICME09-TH-09	11:45 – 12:00	NATURAL CONVECTION FLOW ALONG THE WAVY CONE IN CASE OF UNIFORM SURFACE HEAT FLUX WHERE VISCOSITY IS INVERSLY PROPORTIONAL TO TEMPERATURE <i>Azad Rahman, Sharaban Thohura, M.M.A. Sarker, Md. Mamun Molla Stamford University Bangladesh, Bangladesh</i>
ICME09-TH-10	12:00 – 12:15	MIXED CONVECTION ANALYSIS IN A LID DRIVEN TRAPEZOIDAL CAVITY WITH ISOTHERMAL HEATING AT BOTTOM FOR VARIOUS ASPECT ANGLES <i>Md. Nafiz Hossain Khan Chowdhury, Sumon Saha and Md. Arif Hasan Mamun BUET, Bangladesh</i>
ICME09-TH-11	12:15 – 12:30	MAGNETOHYDRODYNAMIC (MHD)-CONJUGATE FREE CONVECTION FLOW FROM AN ISOTHERMAL HORIZONTAL CIRCULAR CYLINDER WITH JOULE HEATING EFFECT <i>M. A. Azim, Sania Binte Mahtab, M. K. Chowdhury Southeast University, Dhaka, Bangladesh</i>
ICME09-TH-12	12:30 – 12:45	INFLUENCE OF ENGINE SPEED ON HEAT TRANSFER CHARACTERISTICS OF PORT INJECTION HYDROGEN FUELED ENGINE <i>M.M. Rahman, Khalaf I. Hamada, M.M. Noor and K. Kadirgama Universiti Malaysia Pahang, Malaysia</i>
ICME09-TH-13	12:45 – 13:00	EXPERIMENTAL INVESTIGATION OF AN OPEN LOOP CLOSED END PULSATING HEAT PIPE <i>Tahanee Mujib, Fahim Ahmed and Chowdhury Md. Feroz BUET, Bangladesh</i>

Session X (Technical Papers: RT)

Date: 27 December 2009 (Sunday)

Venue: B (ME Departmental Library, EME Building, BUET)

11:30 – 13:00 Session Chair: Prof. M Tamim, Dept of PMRE, BUET **6 Papers**
Co-Chair: Dr. MAA Shoukat Choudhury, Dept of ChE, BUET **@ 15 minutes**

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-RT-04	11:30 – 11:45	NONLINEAR DYNAMICS OF ELECTROSTATICALLY ACTUATED MICROSTRUCTURES UNDER THE EFFECT OF SQUEEZE FILM DAMPING <i>S Chaterjee and G Pohit</i> <i>Jadavpur University, India</i>
ICME09-RT-15	11:45 – 12:00	AUTOMATION OF TESTING FACILITIES USING MATLAB <i>M.M. Rahman, Z.M. Hasib</i> <i>BUET, Bangladesh</i>
ICME09-RT-16	12:00 – 12:15	SAVING ELECTRICAL ENERGY USING INTELLIGENT AUTOMATION TECHNOLOGY <i>Md. Nafiz Ekram Tamim, Fazle Rabbi and M. A. A. Shoukat Choudhury</i> <i>BUET, Bangladesh</i>
ICME09-RT-37	12:15 – 12:30	ELCTRO-MECHANICALLY CONTROLLED CONTINUOUSLY VARIABLE TRANSMISSION SYSTEM FOR PASSENGER CARS <i>A.K.M. Mohiuddin and Md. Ataur Rahman</i> <i>International Islamic University, Malaysia</i>
ICME09-RT-38	12:30 – 12:45	APPLICATION OF THERMAL IMAGE: MACHINE FAULT DIAGNOSIS USING PCA AND ICA COMBINE WITH SVM <i>Ali MD. Younus, Achmad Widodoa, Bo-Suk Yang</i> <i>Pukyong National University, South Korea</i>
ICME09-RT-39	12:45 – 13:00	WAVELET CO-EFFICIENT OF THERMAL IMAGE ANALYSIS FOR MACHINE FAULT DIAGNOSIS <i>Ali Md. Younus, Khairul Alam and Bo-Suk Yang</i> <i>Pukyong National University, South Korea</i>

Session XI (Technical Papers: AM)

Date: 27 December 2009 (Sunday)

Venue: C (ME Department M.Sc. Room, EME Building, BUET)

11:30 – 13:00 **Session Chair: Prof. M Helali, Dept of ME, BUET** **6 Papers**
Co-Chair: Dr. SC Choudhury, Dept of ME, BUET **@ 15 minutes**

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-AM-08	11:30 – 11:45	LARGE AMPLITUDE PERIODIC VIBRATION OF COMPOSITE CYLINDRICAL PANELS <i>M. K. Singha and R. Daripa</i> <i>Indian Institute of Technology Delhi, India</i>
ICME09-AM-15	11:45 – 12:00	CONTACT STRESSES IN CONICAL ROLLERS UNDER NORMAL AND TANGENTIAL LOADINGS <i>Mohammad Wasim Akram, Abu Rayhan Md. Ali</i> <i>Florida Atlantic University, Florida, USA</i>
ICME09-AM-16	12:00 – 12:15	DEVELOPMENT OF ARTIFICIAL SUB-SURFACE CRACKS IN WELDED PLATE AND THEIR NON-DESTRUCTIVE TESTING <i>Faizul Mohammad Kamal, Jafar Sadique and S. R. Ahmed</i> <i>Atomic Energy Centre, Bangladesh</i>
ICME09-AM-17	12:15 – 12:30	FREE AND FORCED VIBRATION EXPERIMENTS ON A CROSSBEAM SYSTEM <i>Anirban Mitra, Prasanta Sahoo and Kashinath Saha</i> <i>Jadavpur University, India</i>
ICME09-AM-18	12:30 – 12:45	RECYCLING OF THERMOPLASTIC COMPOSITES: QUALITY AND DURABILITY <i>M. D. H. Beg, K. L. Pickering, I. Ahmed, Z. Hassan</i> <i>Universiti Malaysia Pahang, Malaysia</i>
ICME09-AM-19	12:45 – 13:00	INFLUENCE OF ACETONE ON THE PERFORMANCE OF POLYETHERSULFONE MEMBRANES <i>Iqbal Ahmed, Ani Idris, M.D.H Beg, Shaharuddin Kormin</i> <i>Universiti Malaysia Pahang, Malaysia</i>

Session XII (Technical Papers: FM)

Date: 27 December 2009 (Sunday)

Venue: A (Council Building, BUET)

14:00 – 16:15	Session Chair: Prof. M Mostfizur Rahman, USA	9 Papers
	Co-Chair: Dr. MM Razzaque, Dept of ME, BUET	@ 15 minutes

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-FM-15	14:00 – 14:15	FLOW THROUGH A CURVED RECTANGULAR DUCT <i>Rabindra Nath Mondal, Bireswar Roy and Anup Kumar Datta Khulna University, Bangladesh</i>
ICME09-FM-16	14:15 – 14:30	FLOW CHARACTERISTICS THROUGH A ROTATING CURVED DUCT WITH SQUARE CROSS SECTION <i>R. N. Mondal, A. K. Datta, M. A. Ali and M. S. Uddin Khulna University, Bangladesh</i>
ICME09-FM-17	14:30 – 14:45	A STUDY OF BADMINTON SHUTTLECOCK AERODYNAMICS <i>Firoz Alam, Harun Chowdhury, C. Theppadungporn and Aleksandar Subic RMIT University, Australia</i>
ICME09-FM-18	14:45 – 15:00	AERODYNAMICS OF TEXTILES FOR ELITE CYCLIST <i>Harun Chowdhury, Firoz Alam, David Mainwaring, Jordi Beneyto-Ferre, Margaret Tate, Dorothy Forster and Aleksandar Subic RMIT University, Melbourne, AUSTRALIA</i>
ICME09-FM-19	15:00 – 15:15	PERFORMANCE OF A LOW COST CIRCULAR ARC HORIZONTAL AXIS WIND <i>Sayed Nazma Yeasmin and Md. Quamrul Islam Atlas Bangladesh Limited</i>
ICME09-FM-20	15:15 – 15:30	FUZZY LOGIC APPROACH FOR PREDICTION THE LIFT COEFFICIENT OF AN AIRCRAFT MODEL WITH AND WITHOUT WINGLET <i>A. Hossain, A. Rahman, A.K.M Mohiuddin, A.K.M.P. Iqbal, M. Arifin, M. Mazian University Industry Selangor, Malaysia</i>
ICME09-FM-21	15:30 – 15:45	REDISTRIBUTED GAS EXCHANGE MECHANISM IN HUMAN LUNG'S PERIPHERALS <i>M. U. Ahmmed and H. Hirahara Saitama University, Japan</i>
ICME09-FM-33	15:45 – 16:00	CONTROLLING THE SIZE DISTRIBUTION OF EXHALED BIOAEROSOL DROPLETS BY MODULATING THE VISCOELASTIC PROPERTIES OF HUMAN AIRWAY MUCUS <i>Md Anwarul Hasan, Carlos F. Lange., Malcolm King Department of Mechanical Engineering, University of Alberta</i>
ICME09-FM-34	16:00 – 16:15	MHD NATURAL CONVECTION FLOW FROM A POROUS VERTICAL PLATE <i>Amena Ferdousi, M. A. Alim Department of Electronics and Electrical Engineering, Eastern University, Bangladesh</i>

Session XIII (Technical Papers: TH)

Date: 27 December 2009

Venue: B (ME Departmental Library, EME Building, BUET)

14:00 – 15:45 Session Chair: Prof. M Al Nur, Dept of ME, BUET

7 Papers

Co-Chair: Dr. M Shafiqul Islam, BAEC

@ 15 minutes

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-TH-14	14:00 – 14:15	OPERATIONAL AND PRESSURE CHARACTERISTICS OF A THERMOLOOP DEVICE <i>K Sharmin, R Roy, S Akhter, M A Islam</i> <i>BUET, Bangladesh</i>
ICME09-TH-15	14:15 – 14:30	ENERGY EXTRACTION FROM CONVENTIONAL BRAKING SYSTEM OF AUTOMOBILE <i>Aktaruzzaman and Mohammad Ali</i> <i>BUET, Bangladesh</i>
ICME09-TH-16	14:30 – 14:45	A COMPARATIVE STUDY OF MECHANISTIC PARACHOR MODEL OVER PARACHOR MODEL IN A MULTI-COMPONENT HYDROCARBON SYSTEM <i>Mohammad Marufuzzaman, Amr Henni, Azizur Rahman</i> <i>University of Regina, Canada</i>
ICME09-TH-17	14:45 – 15:00	EXPERIMENTAL INVESTIGATION OF SESSILE DROP EVAPORATION AND ITS RELATION WITH LEIDENFROST TEMPERATURE <i>A.K. Mozumder, M.R. Ullah and A. Hossain</i> <i>BUET, Bangladesh</i>
ICME09-TH-18	15:00 – 15:15	EXPERIMENTAL INVESTIGATION OF A HEAT PIPE FOR DIFFERENT WORKING FLUIDS AND FILL RATIOS <i>Aloke Kumar Mozumder, Abul Fahad Akon and Md. Shaful Hasib Chowdhury</i> <i>BUET, Bangladesh</i>
ICME09-TH-19	15:15 – 15:30	GENERATION OF BIOGAS FROM ANEROBIC DIGESTION OF VEGETABLE WASTE <i>M. Islam, B. Salam and A. Mohajan</i> <i>CUET, Bangladesh</i>
ICME09-TH-20	15:30 – 15:45	THE ROLE OF TRANSESTERIFICATION PERIOD ON THE EFFECT OF ENGINE PERFORMANCE PARAMETERS USING SOYBEAN BIODIESEL AND DIESEL BLENDS <i>Swarup Paul, P.K. Bose and Bijan Sarkar</i> <i>NIT Agartala, India</i>

Session XIV (Technical Papers: RT)

Date: 27 December 2009 (Sunday)

Venue: C (ME Department M.Sc. Room, EME Building, BUET)

14:00 – 15:45 **Session Chair: Prof. S Karim Chowdhury, VC, RUET** **7 Papers**
Co-Chair: Prof. Nuruzzaman, Head, Dept. of ME, DUET **@ 15 minutes**

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-RT-12	14:00 – 14:15	A MODEL FOR PREVENTIVE MAINTENANCE SCHEDULING – A STEP TO IMPLEMENT TPM IN ORGANIZATIONS <i>Abul Mukid Mohammad Mukaddes, Nazi Faisal Ahmed Chowdhury and Md. Moin Uddin</i> <i>SUST, Bangladesh</i>
ICME09-RT-13	14:15 – 14:30	FACTORS AFFECTING PRODUCTIVE EFFICIENCY OF THE APPAREL INDUSTRY OF BANGLADESH <i>Dr. Syed Nadeem Ahmed, Dr. Ahsan Akhter Hasin</i> <i>Secretary, BIDS</i>
ICME09-RT-18	14:30 – 14:45	DEVELOPMENT OF THE CONCEPT OF OVERALL WORK COMPATIBILITY: INTEGRATING IMPORTANT WORK VARIABLES <i>Farhana Afreen Proma, Dr. M. Ahsan Akhtar Hasin and Tahera Yesmin</i> <i>BUET, Bangladesh</i>
ICME09-RT-20	14:45 – 15:00	MULTI-OBJECTIVE OPTIMIZATION OF CUTTING PARAMETERS FOR SURFACE ROUGHNESS IN CYLINDRICAL GRINDING USING RESPONSE SURFACE METHOD <i>B. C.Routara, P. Sahoo, A. Bandyopadhyay</i> <i>KIIT University, INDIA</i>
ICME09-RT-21	15:00 – 15:15	IDENTIFICATION OF INSTABILITIES OF CHIP FORMATION BY IMAGE PROCESSING TECHNIQUE <i>Md. Anayet U Patwari, A.K.M. Nurul Amin, W. Faris</i> <i>Islamic University of Technology, Dhaka</i>
ICME09-RT-22	15:15 – 15:30	FABRICATION OF HIGH-ASPECT-RATIO EDM MICROELECTRODES USING ON-THE-MACHINE TOOL FABRICATION TECHNIQUES <i>M.P. Jahan, M. Rahman, Y.S. Wong, L. Fuhua</i> <i>National University of Singapore, Singapore</i>
ICME09-RT-23	15:30 – 15:45	DEFECTS IDENTIFICATION AND ANALYSIS OF A PHARMACEUTICAL PRODUCT USING PARETO AND CAUSE-EFFECT ANALYSIS <i>Sanjoy K Paul and Abdullahil Azeem</i> <i>BUET, Bangladesh</i>

Session XVI (Technical Papers: FM)

Date: 27 December 2009

Venue: B (ME Departmental Library, EME Building, BUET)

16:00 – 18:30 Session Chair: Prof AKM Sadrul Islam, IUT **10 Papers**
Co-Chair: Prof. M Mahbulbul Alam, Head, Dept of ME, CUET @ 15 minutes

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-FM-22	16:00 – 16:15	STENOSIS LENGTH AND ITS IMPACT ON FLOW OF BLOOD THROUGH RECTANGULAR STENOSED CORONARY ARTERY <i>S. Chakrabarti and D. K. Mandal</i> <i>Bengal Engineering and Science University, India</i>
ICME09-FM-23	16:15 – 16:30	AERODYNAMICS OF FOOTBALLS <i>Firoz Alam, Harun Chowdhury, Christopher Whyte and Aleksandar Subic</i> <i>RMIT, Australia</i>
ICME09-FM-25	16:30 – 16:45	AN EXPERIMENTAL INVESTIGATION OF THE EFFECT OF VEHICLE SPACING ON BOUNDARY LAYER CHARACTERISTICS IN THE 2-VEHICLES PLATOON <i>A.Motin, M.A.T. Ali</i> <i>BUET, Bangladesh</i>
ICME09-FM-26	16:45 – 17:00	CHARACTERISTICS OF TWIN AXISYMMETRIC FREE JETS <i>Mohammed A. Azim</i> <i>BUET, Bangladesh</i>
ICME09-FM-27	17:00 – 17:15	AERODYNAMICS OF VEHICLE ADD-ONS <i>Firoz Alam, Harun Chowdhury and Simon Watkins</i> <i>RMIT, Australia</i>
ICME09-FM-29	17:15 – 17:30	MIXING OF SUPERSONIC JETS WITH DIFFERENT MERGING ANGLES FOR CONSTANT INLET PRESSURE AND VELOCITY <i>Mohammad Ali, M Quamrul Islam, TAGN Jubery and S M Nazrul Islam</i> <i>BUET, Bangladesh</i>
ICME09-FM-30	17:30 – 17:45	EFFECT OF GAS WEBER NUMBER ON LIQUID SHEET BREAKUP <i>Mohammad Ali, M. Quamrul Islam and R. Mahamud</i> <i>BUET, Bangladesh</i>
ICME09-FM-31	17:45 – 18:00	EFFECTS OF RADIATION AND PRESSURE WORK ON MHD NATURAL CONVECTION FLOW AROUND A SPHERE <i>M. A. Alim and Tahmina Akhter</i> <i>BUET, Bangladesh</i>
ICME09-FM-35	18:00 – 18:15	EXPERIMENTAL STUDY OF THERMALLY STRATIFIED CO-AXIAL JETS WITH TRIP RING EXCITATION <i>M. A. T. ALI, Sukanta BHATTACHARJEE</i> <i>BUET, Bangladesh</i>
ICME09-FM-36	18:15 – 18:30	ANALYSIS OF A NEGATIVELY BUOYANT JET <i>Chandan Kumar, D. Das and M.M. Razzaque</i> <i>BUET, Bangladesh</i>

Session XVII (Technical Papers: TH)

Date: 27 December 2009

Venue: C (ME Department M.Sc. Room, EME Building, BUET)

16:00 – 18:00	Session Chair: Prof. M A R Sarkar, Dept of ME, BUET Co-Chair: Dr. Ali Haider, GM, Esquire Knitting	8 Papers @ 15 minutes
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<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-TH-21	16:00 – 16:15	EFFECT OF CONDUCTION ON COMBINED FREE AND FORCED CONVECTION IN A VENTILATED CAVITY WITH A HEAT-GENERATING SOLID CIRCULAR BODY <i>M. A. H. Mamun, M. M. Rahman, and Shuichi Nagata</i> <i>Saga University, Japan</i>
ICME09-TH-22	16:15 – 16:30	EXPERIMENTAL INVESTIGATION OF HEAT TRANSFER CHARACTERISTICS OF CYLINDRICAL FIN WITH DIFFERENT GROOVES <i>Mohammad Mashud, Md. Kazi Mostafijur Rahman, Zinat Rahman Arani and Afsanul Tanveer</i> <i>KUET, Bangladesh</i>
ICME09-TH-23	16:30 – 16:45	STEADY-STATE SOLUTIONS OF HEAT AND MASS TRANSFER FLOW FROM A VERTICAL POROUS PLATE WITH THERMAL DIFFUSION AND INDUCED MAGNETIC FIELD <i>Md. Mohidul Haque and Md. Mahmud Alam</i> <i>Khulna University, Bangladesh</i>
ICME09-TH-24	16:45 – 17:00	THERMAL PERFORMANCE OF PARALLEL MINIATURE HEAT PIPE SYSTEM <i>Chowdhury Md. Feroz, Mohammad Mamunur Rahman, Md. Hasibul Alam, and Auvi Biswas</i> <i>BUET, Bangladesh</i>
ICME09-TH-25	17:00 – 17:15	NUMERICAL STUDY OF A TWO-STAGE ADSORPTION CHILLER EMPLOYING RE-HEAT SCHEME WITH DIFFERENT MASS RATIOS <i>M. Z. I. Khan, SK. Farid, S. Sultana</i> <i>BUET, Bangladesh</i>
ICME09-TH-26	17:15 – 17:30	NON-CONVENTIONAL USE OF SMALL DIESEL ENGINES : CASE STUDIES <i>M Ehsan, M N I Kabir, S Reza, and M S Sultana</i> <i>BUET, Bangladesh</i>
ICME09-TH-27	17:30 – 17:45	WASTE VEGETABLE OIL AS AN ALTERNATIVE FUEL FOR DIESEL ENGINE <i>Soma Chakraborty, Amit Adhikary, Maglub Al Nur</i> <i>DUET, Bangladesh</i>
ICME09-TH-28	17:45 – 18:00	MORPHOLOGICAL STUDY OF THE PARTICULATE MATTER SAMPLED FROM THE EXHAUST OF A DIESEL ENGINE IN DIESEL AND DUAL FUEL MODES <i>Nirendra N Mustafi, Robert R Raine</i> <i>RUET, Bangladesh</i>

Session XVIII (Keynote Lecture)

Date: 28 December 2009

Venue: A (Council Building, BUET)

9:30 – 11:00 Session Chair: Prof. A F M Anwarul Haq, Former VC, RUET

9:30 – 10:15 **KN4:**

Prof. S Jeelani

Department of Mechanical Engineering, Tuskegee University, USA

10:15 – 11:00

KN5:

REVIEW AND SOME RESEARCH RESULTS ON JET FLOW CHARACTERISTICS

Prof. MA Taher Ali, Department of Mechanical Engineering, BUET

Session XIX (Technical Papers: RT)

Date: 28 December 2009(Monday)

Venue: A (Council Building, BUET)

11:30 – 13:00 Session Chair: NC Shutrathar, DG Technical Education

6 Papers

Co-Chair: Prof M Aminul Islam, Dept of MME, BUET

@ 15 minutes

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-RT-25	11:30 – 11:45	HYDRODYNAMIC INTERACTION FOR A LONG ARRAY OF FREELY FLOATING 3-D RECTANGULAR BOXES <i>Mir Tareque Ali and Tasnuva Anan</i> <i>BUET, Bangladesh</i>
ICME09-RT-26	11:45 – 12:00	ANALYSIS OF TRANSOM STERN FLOWS BY MODIFIED RANKINE SOURCE PANEL METHOD <i>Md. Shahjada Tarafder, Gazi Md. Khalil and Goutam Kumar Saha</i> <i>BUET, Bangladesh</i>
ICME09-RT-42	12:00 – 12:15	A MODEL OF A CVT ADJUSTMENT DRIVE BASED ON TRANSIENT RESPONSE <i>S. C. Banik, S. M. Mahfuzur Rahman and A. K. Mozumder</i> <i>CUET, Bangladesh</i>
ICME09-RT-44	12:15 – 12:30	PREPARATION OF CARBON NANOTUBE GAS SENSORS BY INKJET PRINTING PROCESS FOR MONITORING OF POLLUTANT NO _x GAS IN AIR <i>M.M.H. Bhuiyan, K. Senba, R. Hayashi, F. Mitsugi, T. Ikegami</i> <i>Kumamoto University, Japan</i>
ICME09-RT-49	12:30 – 12:45	DEVELOPMENT AND EVALUATION OF HYDRAULIC SIMULATION MODEL FOR WHEEL LOADER <i>Khairul Alam, Sung Hee Park, Chang Don Lee and Soon Yong Yang</i> <i>Institute of e-vehicle Technology, Korea</i>
ICME09-RT-50	12:45 – 13:00	NANO-HYBRIDS OF POLYIMIDE BY IN-SITU FORMED POLYSILOXANES <i>Md. Hafezur Rahaman, Ismat Ara, Shaikh Md. Mominul Alam</i> <i>Islamic University, Bangladesh</i>

Session XXI (Technical Papers: RT)

Date: 28 December 2009 (Monday)

Venue: C (ME Department M.Sc. Room, EME Building, BUET)

11:30 – 13:15 Session Chair: Prof. MM Rahman, NUS, Singapore
Co-Chair: Engr. Jafar Sadique, BAEC

7 Papers
@ 15 minutes

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-RT-24	11:30 – 11:45	PARAMETRIC OPTIMIZATION OF CNC WIRE CUT EDM USING GREY RELATIONAL ANALYSIS <i>B. C. Routara, B.K. Nanda, D.R.Patra</i> <i>KIIT University, India</i>
ICME09-RT-27	11:45 – 12:00	MOLECULAR DYNAMICS STUDY OF AFM BASED MACHINING PROCESS <i>Hanif Muhammad Khan and Sung-Gaun Kim</i> <i>Kongju National University, Korea</i>
ICME09-RT-28	12:00 – 12:15	RESPONSE SURFACE MODELING OF FRACTAL DIMENSION IN CNC TURNING <i>T K Barman, P Sahoo</i> <i>Jadavpur University, India</i>
ICME09-RT-29	12:15 – 12:30	FRACTAL DIMENSION MODELING IN CNC MILLING USING TAGUCHI METHOD <i>T K Barman, P Sahoo</i> <i>Jadavpur University, India</i>
ICME09-RT-30	12:30 – 12:45	A HOLISTIC APPROACH FOR DUST PREVENTION: COMBINATION OF LEV AND PREVENTION UNITS <i>Abdullah-Al-Mamun, Farhana Mahboob Nijhoom and Farzana Khurshid</i> <i>BUET, Bangladesh</i>
ICME09-RT-47	12:45 – 13:00	PROBLEM ANALYSIS AND PRODUCTIVITY IMPROVEMENT OF A KNITWEAR CUTTING SECTION: A CASE STUDY OF ABONI KNITWEAR <i>Seratun Jannat, Md. Niaz Sharif, Sharmin Nahar Mithy and Sanjida Alam Khan, BUET, Bangladesh</i>
ICME09-RT-55	13:00 – 13:15	EFFECT OF SCANDIUM ON THE CAST Al-Si-Mg ALLOY <i>M. S. Kaiser, M. R. Basher, and A. S. W. Kurny</i> <i>BUET, Bangladesh</i>

Session XXII (Technical Papers: RT)

Date: 28 December 2009 (Monday)

Venue: A (Council Building, BUET)

14:00 – 15:45 Session Chair: Prof. Qumrul Ahsan, Dept of MME, BUET **8 Papers**
Co-Chair: Prof. MA Rahman, Dept of ME, BUET **@15 minutes**

<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-RT-01	14:00 – 14:15	STUDY OF MICROSTRUTURE AND TEMPERATURE DEPENDENT LOW FREQUENCY AC PROPERTY OF $\text{Ni}_{0.46}\text{Zn}_{0.54}\text{Ca}_{0.05}\text{Fe}_2\text{O}_4$ FOR MECHATRONICS AND ELETRONIC DEVICE APPLICATION <i>H. M. Iftekhar Jaim, F A Khan, BUET, Bangladesh</i>
ICME09-RT-02	14:15 – 14:30	FRICITION BEHAVIOUR OF ELECTROLESS Ni-B COATINGS <i>Prasanta Sahoo and Suman Kalyan Das</i> <i>Jadavpur University, India</i>
ICME09-RT-03	14:30 – 14:45	OPTIMIZATION OF ELECTROLESS Ni-B COATINGS BASED ON MUTIPLE ROUGHNESS CHARACTERISTICS <i>Suman Kalyan Das and Prasanta Sahoo</i> <i>Jadavpur University, India</i>
ICME09-RT-05	14:45 – 15:00	INVESTGATION OF STRUCTURAL AND MAGNETIC PROPERTIES OF $\text{Co}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$ PREPARED BY COMBUSTION TECHNIQUE <i>M. H. R. Khan, Farhad Alam, M. N. I. Khan, M.A. Hakim, D.K. Saha, and A. K. M. Akther Hossain, AUST, Bangladesh</i>
ICME09-RT-08	15:00 – 15:15	LASER CLEANING AND METAL CHARACTERIZATION IN AID OF ARTEFACT PRESERVATION AND ARCHAEO-METAL TECHNOLOGY INVESTIGATION <i>Barnali Mandal, P. K. Chattopadhyay, Dipten Misra and P.K. Datta</i> <i>Jadavpur University, India</i>
ICME09-RT-14	15:15 – 15:30	STUDIES ON TIN OXIDE (SnO_2) AND CU DOPED SnO_2 THIN FILMS DEPOSITED BY SPRAY PYROLYSIS TECHNIQUE FOR WINDOW MATERIALS IN SOLAR CELLS <i>S. S. Roy and J. Podder</i> <i>Dwarika Paul Mohila Degree College, Bangladesh</i>
ICME09-RT-17	15:30 – 15:45	WEAR BEHAVIOUR OF NODULAR CAST IRON <i>N. Fatima and M.A. Islam</i> <i>BUET, Bangladesh</i>
ICME09-AM-03	15:45 – 16:00	EFFECT OF VARIOUS AMOUNT OF Cu ON THE THERMAL AND MECHANICAL BEHAVIOR OF Sn-Zn EUTECTIC Pb-FREE SOLDER ALLOY <i>M. Rahman, A. Sharif, and Mansur Ahmed, BUET, Bangladesh</i>

Session XXIII (Technical Papers: Misc.)

Date: 28 December 2009 (Monday)

Venue: B (ME Departmental Library, EME Building, BUET)

14:00 – 16:00	Session Chair: Prof. Dil Afroz Begum, Head, ChE, BUET Co-Chair: Dr. S. Sultana Razia, Dept of ChE, BUET	8 Papers @ 15 minutes
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<i>Paper #</i>	<i>Time</i>	<i>Title and Author</i>
ICME09-RT-06	14:00 – 14:15	BIOGAS FROM ANAEROBIC DIGESTION OF FISH WASTE <i>B. Salam, M. Islam and M. T. Rahman</i> <i>CUET, Bangladesh</i>
ICME09-RT-43	14:15 – 14:30	CONSIDRATION OF ENGINEERING ETHICS AS A NECESSARY ATTRIBUTE FOR PREPARING ETHICAL ENGINEERS IN PAPUA NEW GUINEA <i>John Pumwa</i> <i>Papua New Guinea University of Technology, Papua New Guinea</i>
ICME09-RT-51	14:30 – 14:45	DEVELOPMENT OF A SEPARABLE CAR SEAT TYPE MULTI FUNCTIONAL STROLLER BY OPTIMIZATION <i>Md.Fuhad Hassan and Euy Sik Jeon</i> <i>KNU, South Korea</i>
ICME09-RT-52	14:45 – 15:00	AN EXPERIMENTAL INVESTIGATION OF VEGETABLE OIL BASED CUTTING FLUID ON DRILLING MEDIUM CARBON STEEL BY HSS DRILL BIT <i>M. A. Islam, M. J. Uddin, M. A. Alim and N. R. Dhar</i> <i>RUET, Bangladesh</i>
ICME09-RT-53	15:00 – 15:15	PERFORMANCE EVALUATION OF DIFFERENT TYPES OF CUTTING FLUID IN MQL MACHINING OF ALLOY STEEL BY COATED CARBIDE INSERT <i>S. Sultana, Prianka B. Zaman, and N. R. Dhar</i> <i>DIU, Bangladesh</i>
ICME09-RT-54	15:15 – 15:30	OPTIMIZATION OF RETAIL DISTRIBUTION NETWORK: A CASE STUDY <i>Md Mazharul Hoque, Abdullahil Kafy and Abdullahil Azeem</i> <i>BUET, Bangladesh</i>
ICME09-AM-06	15:30 – 15:45	COMPARATIVE PERFORMANCE AND VERIFICATION STUDY OF SIMPLIFIED SPOT WELD MODELS <i>K. N. Ahsan Noman, Monir Takla, Thomas Ting</i> <i>RMIT, Australia</i>
ICME09-AM-32	15:45 – 16:00	ON THE DISPLACEMENT-POTENTIAL SOLUTION OF PLANE PROBLEMS OF STRUCTURAL MECHANICS WITH MIXED BOUNDARY CONDITIONS <i>S K Deb Nath and S R Ahmed</i> <i>Kongju National University, South Korea</i>

Session XXIV (Technical Papers: Misc.)

Date: 28 December 2009 (Monday)

Venue: C (ME Department M.Sc. Room, EME Building, BUET)

14:00 – 16:00 Session Chair: **Dr. MM Rahman, Dept of PMRE, BUET**

8 Papers

Co-Chair: **Dr. M Rafiqul Islam, Dept of NAME, BUET**

@ 15 minutes

Paper #	Time	Title and Author
ICME09-RT-07	14:00 – 14:15	THERMODYNAMIC ANALYSIS OF HIGH TEMPERATURE STEAM GASIFICATION OF BLACK LIQUOR FOR POWER GENERATION <i>M. M. Rahman, W. Yang</i> <i>CUET, Bangladesh</i>
ICME09-RT-09	14:15 – 14:30	UNUSUAL WIND BEHAVIOUR AT SITAKUNDU OF BANGLADESH <i>A. K. Azad and Dr. M. M. Alam</i> <i>BUET, Bangladesh</i>
ICME09-RT-10	14:30 – 14:45	FIXED BED PYROLYSIS OF DATE SEED WASTE FOR LIQUID OIL PRODUCTION <i>Mohammad Nurul Islam, S. M. Najmul Hoque and Mohammad Uzzal Hossain Joardder</i> <i>RUET, Bangladesh</i>
ICME09-RT-11	14:45 – 15:00	OPTIMIZATION STUDY OF A SOLAR-OPERATED LITHIUM BROMIDE-WATER COOLING SYSTEM WITH FLAT PLATE COLLECTORS <i>K. K. Datta Gupta, D. N. Basu and S. Chakravarti</i> <i>Bengal Engg. & Science University, INDIA</i>
ICME09-RT-19	15:00 – 15:15	ENVIRONMENTAL POLLUTION OF BANGLADESH – ITS EFFECT AND CONTROL <i>G.M. Jahangir Alam</i> <i>Bangladesh Air Force, Bangladesh</i>
ICME09-RT-40	15:15 – 15:30	PREDICTION AND EVALUATION OF BOREHOLES SHEAR FAILURES RISK IN SHALE UNDER IN-SITU STRESS STATE - A SENSITIVITY ANALYSIS <i>Md. Aminul Islam and Pål Skalle</i> <i>NTNU, Norway</i>
ICME09-RT-45	15:30 – 15:45	ESTIMATION OF VEHICLE INDUCED EMISSIONS OF SELECTED URBAN AREAS IN DHAKA CITY <i>Armana Sabiha Huq</i> <i>BUET, Bangladesh</i>
ICME09-RT-48	15:45 – 16:00	SMALL ANGLE NEUTRON SCATTERING STUDIES ON MIXED MICELLES <i>I. Kamal, F. U. Ahmed, P.S. Goyal and G.U. Ahmad</i> <i>Bangladesh Atomic Energy Commission, Bangladesh</i>