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)

	ilicii bullullig,	
14:00 – 15:45	Session Chair	: Dr. M Mujibur Rahman, Consultant, USA 7 Papers
	Co-Chair: Pro	of. SR Ahmed, Dept of ME, BUET @ 15 minutes
Paper #	Time	Title and Author
ICME09-AM-01	14:00 – 14:15	EVALUATION OF COMPOSITE HARDNESS AND WEAR
10111207 11111 01	1.100 1.110	MECHANISM OF COPPER THIN FILM COATING
		Sumaiya Islam, Raafat N. Ibrahim
		Monash University, Australia
ICME09-AM-02	14.15 – 14.30	ANALYSIS ON SOUND ABSORPTION OF NATURAL COIR FIBER
10111207 11111 02	11.15 11.50	USING DELANY-BAZLEY MODEL
		Md. Ayub, Mohd Jailani Mohd Nor, Nowshad Amin, Rozli Zulkifli,
		Mohammad Hosseini Fouladi, Ahmed R. Ismail
		National University of Malaysia, Malaysia
ICME09-AM-04	14.30 - 14.45	A FINITE ELEMENT STUDY OF ELASTIC-PLASTIC
TCMEO) THAT OT	14.30 14.43	HEMISPHERICAL CONTACT BEHAVIOR AGAINST A RIGID FLAT
		UNDER VARYING MODULUS OF ELASTICITY AND SPHERE
		RADIUS
		Biplab Chatterjee and Prasanta Sahoo
		Jadavpur University, India
ICME09-AM-05	14.45 - 15.00	EFFECT OF STRAIN HARDENING ON ELASTIC-PLASTIC CONTACT
TCIVILO / TIME OF	11.15 15.00	BEHAVIOUR OF A SPHERE AGAINST A RIGID FLAT – A FINITE
		ELEMENT STUDY
		Biplab Chatterjee, Dipankar Adhikary and Prasanta Sahoo
		Jadavpur University, India
ICME09-AM-07	15:00 – 15:15	VARIATIONAL FORMULATION BASED POST-ELASTIC ANALYSIS
10111207 1111 07	10.00 10.10	OF ROTATING DISKS WITH VARYING THICKNESS
		Shubhankar Bhowmick, Dipten Misra and Kashi Nath Saha
		Jadavpur University, India
ICME09-AM-09	15:15 – 15:30	SYNTHESIS OF Mg-SiC COMPOSITES USING UNDERWATER
		SHOCK WAVE BY CHANGING MILLING PARAMETERS
		A. Nayeem Faruqui Palavesamuthu Manikandan Takashi Sato, Kazuyuki
		Hokamoto
		Kumamoto University, Japan
ICME09-AM-10	15:30 – 15:45	VIBRATION CONTROL OF SMART COMPOSITE SHELL
		STRUCTURES USING GENETIC ALGORITHM
		Debabrata Chakraborty and Tarapada Roy
		IIT Guwahati, India

Session III (Technical Papers: FM)

Date: 26 December 2009 (Saturday)

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

		in Library, EIVIE Building, BUET)		
14:00 – 15:45		r: Prof. Quamrul Islam, Dept of ME, BUET	7 Papers	
	Co-Chair: D	r. M Mamun, Dept of ME, BUET	@15 minutes	
Paper #	Time	Title and Author		
ICME09-FM-01	14:00 - 14:15	VIRTUAL IMPACTORS: A NOBLE DEVICE TO	GENERATE HIGH	
		CONCENTRATION MONODISPERSE AEROSOLS		
		Md. Shamim Akhter, Md. Ariful Islam and M.R. I. Sarker		
		RUET, Bangladesh		
ICME09-FM-02	14:15 - 14:30	PREDICTION OF STANDPIPE PRESSURE USING RE	AL TIME DATA	
		Dipankar Chowdhury, Pål Skalle and Mahbubur Rahman		
		Norwegian University of Science & Technology, Norway		
ICME09-FM-03	14:30 - 14:45	STUDY ON REAL GAS FLOWS THROUGH A CRITIC		
		Mamun Mohammad, Junji Nagao, Shigeru Matsuo, Toki	tada Hashimoto and	
		Toshiaki Setoguchi		
ICI (Eco El Co)	44.45 45.00	BUET, Bangladesh	an.	
ICME09-FM-04	14:45 – 15:00	EXPERIMENTAL STUDY OF FRACTAL TURBULEN	CE	
		S.M. Muztaba Salim, F.C.G. Nicolleau and M. Borkowski		
		University of Sheffield, UK		
ICME09-FM-06	15:00 - 15:15	THE EFFECT OF GAS FLOW RATE ON DEPOSIT	ION RATE USING	
		CVD		
		M A Chowdhury, D M Nuruzzaman, M L Rahaman and M	S Islam	
		DUET, Bangladesh		
ICME09-FM-28	15:15 – 15:30	A MODIFIED EULERIAN-LAGRANGIAN APPROAC		
		MULTI-PHASE FLOW APPLIED TO A COMPACT D	OWN-HOLE SUB-	
		SEA GAS-LIQUID SEPATATOR		
		Shakil Ahmed, Gerardo Sanchez Soto, Jamal Naser and E	dson Nakagawa	
		Swinburne University of Technology, Australia		
ICME09-FM-32	15:30 – 15:45	NUMERICAL STUDY ON MIXING FLOW FIELD	WITH DIFFERENT	
		ANGLES INTO A SUPERSONIC FLOW		
		Rafiqul Hoque, Mohammad Ali and Quamrul Islam		
		BUET, Bangladesh		

	Session IV (Technical Papers: TH)
Date: 26 December 2009	(Saturday)
Venue: C (ME Departme	ent M.Sc. Room, EME Building, BUET)

		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 minut			
Paper #	Time	Title and Author		
ICME09-TH-01	14:00 - 14:15	EFFECTS OF EGR & MAGNETIC FUEL TREATM	ENT SYSTEM ON	
		ENGINE EMISSION CHARACTERISTICS IN A BIO FU	JEL ENGINE	
		P. Govindasamy and S. Dhandapani		
		Kongu Engineering College, India		
ICME09-TH-02	14:15 - 14:30	NATURAL CONVECTION AND RADIATION IN CIRC	CULAR AND ARC	
		CAVITY		
		Naheed Ferdous, Md. Tofiqul Islam, Md. Arif Hasan Mam	un+	
		+		
		BUET, Bangladesh		
ICME09-TH-03	14:30 - 14:45	PROSPECTS OF BIOMASS GASIFICATION AS AN I	ENERGY SOURCE	
		IN BANGLADESH		
		M M Hasan, N N Mustafi and M. A Hashem		
		RUET, Bangladesh		
ICME09-TH-04	14:45 - 15:00	ROLE OF OXYGENATED FUEL TO REDUCE DIES	EL EMISSIONS: A	
		REVIEW Md. Nurum Nabi Dhandanani Kannan Johan Finar Hustad and Md.		
		Md. Nurun Nabi, Dhandapani Kannan, Johan Einar Hustad and Md. Mustafizur Rahman		
		NTNU, Norway		
ICME09-TH-05	15:00 - 15:15	LARGE SCALE THERMAL-SOLID COUPLING A	NALYSIS USING	
		INEXACT BALANCING DOMAIN DECOMPOSITION		
		A M Mohammad Mukaddes and Ryuji Shioya, SUST, Bang	gladesh	
ICME09-TH-06	15:15 – 15:30	BIODIESEL FROM JATROPHA OIL AS AN ALTERN	ATIVE FUEL FOR	
		DIESEL ENGINE		
		Mohammad Mashud, Md. Mizanur Rahman Md. Roknuzze	aman and Asadullah	
		Al Galib		
		KUET, Bangladesh		
ICME09-TH-07	15:30 – 15:45	DESIGN, CONSTRUCTION AND PERFORMANC		
		SYNCHRONIZED MULTI-SPARK MODULE FO	R ELECTRONIC	
		IGNITION DEVICE	21	
		Mohammad Mashud, Md. Hasan Ali and Sabbir Hossain K	<i>xnan</i>	
		KUET, Bangladesh		

Session V (Technical Papers: RT)

Date: 26 December 2009 (Saturday)

Venue: A (Council Building, BUET)

venue: A (Cou	incil Building	g, BUET)	
16:00 – 18:00	Session Chai	r: Prof. Anwarul Azim, Former VC, DUET	8 Papers
	Co-Chair: D	r. Abdullahil Azeem, Dept of IPE, BUET	@ 15 minutes
Paper #	Time	Title and Author	
ICME09-RT-31	16:00 – 16:15	PERFORMANCE EVALUATION OF CARBIDE INSE	RTS IN TURNING
		C-60 STEEL AND 42CrMo4 STEEL UNDER	
		COOLANT (HPC) CONDITION	
		M. Kamruzzaman and N. R. Dhar, BUET, Bangladesh	
ICME09-RT-32	16:15 – 16:30		(HPC) JET ON
		TEMPERATURE, CHIPS AND FORCES IN TURNING	
		AND AISI 4320 STEEL	
		M. Kamruzzaman and N. R. Dhar, BUET, Bangladesh	
ICME09-RT-33	16:30 – 16:45	EVALUATION OF PROCESS CAPABILITY USING FU	JZZY INFERENCE
		SYSTEM	
		Zakia Farhana, Md. Ahasan Habib ,Hafsa Binte Mohsin, S	Syed Mithun Ali,
		Sanjoy Kumar Paul, BUET, Bangladesh	
ICME09-RT-34	16:45 - 17:00	AN INDUSTRIAL APPLICATION OF DMECA	APPROACH TO
		MANAGEMENT PROCESS ANALYSIS	
		Azizur Rahman, Md. Kutub Uddin,, KUET, Bangladesh	
ICME09-RT-35	17:00 - 17:15	APPLICATION OF VIKOR BASED TAGUCHI METH	HOD FOR MULTI-
		RESPONSE OPTIMIZATION: A CASE STUDY IN S	UBMERGED ARC
		WELDING (SAW)	
		Sri Ajay Biswas, Dr. Saurav Datta, Dr. Swapan Bhau	ımik, Prof. Gautam
		Majumdar, NIT, INDIA	
ICME09-RT-36	17:15 - 17:30	WAREHOUSE DESIGN: A SET THEORETIC APPROA	CH
		Mosammat Ferdaushi Sultana, Dr. Md. Kutub Uddin	
		Wartsila Bangladesh Ltd, Bangladesh	
ICME09-RT-41	17:30 - 17:45	MEASURING BULLWHIP EFFECT IN A MULTIS	TAGE COMPLEX
		SUPPLY CHAIN	
		Tahera Yesmin, Dr. M. Ahsan AKhtar Hasin and Farhana	Afreen Proma
		BUET, Bangladesh	
ICME09-RT-46	17:45 - 18:00	TIME STUDY OF A FURNITURE INDUSTRY: A	CASE STUDY AT
		NAVANA FURNITURE INDUSTRY	
		Seratun Jannat, Md Mazharul Hoque, Nazia Sultana, Israt	Jahan Chowdhury
		BUET, Bangladesh	

Date: 26 December 2009(Saturday)					
Venue: B (ME	Venue: B (ME Departmental Library, EME Building, BUET)				
16:00 - 18:00	Session Chai	r: Prof. AKM Masud, Dept of IPE, BUET	8 Papers		
	Co-Chair: D	r. AK Mozumder, Dept of ME, BUET	@15 minutes		
Paper #	Time	Title and Author			
ICME09-AM-11	16:00 - 16:15	WATER DISSOCIATION AND ADSORPTION ON NI-	CR (111) BINARY		
		ALLOY SURFACE AT 325°C			
		Nishith Kumar Das and Tetsuo Shoji			
		Tohoku University, Japan			
ICME09-AM-12	16:15 – 16:30	MECHANICAL AND THERMAL CHARACTERIZ	ATION OF CNF-		
		FILLED POLYESTER NANOPHASED COMPOSITE			
		Mohammad Kamal Hossain, Muhammad Enayet Hossain	, Mahesh Hosur and		
		Shaik Jeelani			
		Tuskegee University, USA			
ICME09-AM-13	16:30 - 16:45	EVALUATION OF THERMOELASTIC PROPERTI	ES OF CARBON		
		THE TOTAL DELICE CONTROLLED CONTROL	NITE ELEMENT		
		METHOD			
		Sushen Kirtania and Debabrata Chakraborty			
		Tezpur University, India			
ICME09-AM-14	16:45 - 17:00	A COMPARATIVE STUDY OF TRACK BUCKLING	PARAMETERS OF		
		CONTINUOUS WELDED RAIL			
		Shah Sanjar Nafis Ahmad, Nirmal Kumar Mandal and Go	pinath		
	Chattopadhyay				
		Centre for Railway Engineering, Australia			
ICME09-AM-27	17:45 - 18:00	MODELLING AND ANALYSIS OF A FEMORAL NEC	K PROSTHESIS		
		A.S.Blicblau and M.Lew			

Swinburne University of Technology, Australia

Muhammad Ashiqur Rahman, Ashraf Uddin Ahmed, Muhammad Sayem Uddin

PV Biswas, MA Uddin, MA Islam, MAR Sarkar, VG Desa, MH Khan and AMA

Session VI (Technical Papers: AM)

BUET, Bangladesh

ICME09-AM-30 17:30 – 17:45 STRESS ANALYSIS OF STEEL PLATE HAVING HOLES OF VARIOUS SHAPES, SIZES AND ORIENTATIONS USING FINITE ELEMENT METHOD

T. Hasan, A. Das, T. Rahman, S. C. Chowdhury, Md. T. Alam

BUET, Bangladesh

ICME09-AM-28 17:00 – 17:15 NONLINEAR ANALYSIS OF SHOCK ABSORBERS

BUET, Bangladesh
ICME09-AM-29 17:15 – 17:30 HARNESSING RAINDROP ENERGY IN BANGLADESH

Session	VII	Technical Papers:	FM)
DCSSIUII		1 commean 1 apers.	

Date: 26 December 2009 (Saturday)

venue: C (ME Department M.Sc. Room, EME Building, BUE1)				
16:00 – 18:00		r: Prof. AC Mandal, Dept of ME, BUET	8 Papers	
		r. Shhariar Iqbal, Dept of NAME, BUET	@15 minutes	
Paper #	Time	Title and Author		
ICME09-FM-07	16:00 – 16:15	ANALYSIS OF WEIBULL PARAMETERS FOR TH	E THREE MOST	
		PROSPECTIVE WIND SIDES OF BANGLADESH		
		M. M. Alam, A. K. Azad		
		BUET, Bangladesh		
ICME09-FM-08	16:15 - 16:30	EXPERIMENTAL INVESTIGATION ON FLUID FL	OW SEPARATION	
		CONTROL		
		Mohammad Mashud, Abdullah Al Bari and T. P. Bhow	mick	
		KUET, Bangladesh		
ICME09-FM-09	16:30 – 16:45	A COMPUTATIONAL STUDY OF TRANSONIC M		
		AROUND A SYMMETRIC DISK BUTTERFLY VA	- · -	
		A. B. M. Toufique Hasan, Mohammad Mamun, Shigert	ı Matsuo and Toshiaki	
		Setoguchi		
		Saga University, Japan		
ICME09-FM-10	16:45 - 17:00	INDUCED DRAG REDUCTION FOR MODERN AI		
		INCREASING THE SPAN OF THE WING BY USIN		
		Mohammad Mashud, Md. Hasan Ali, Abdullah-Al-Nah	iian and S.M.S. Selim	
		KUET, Bangladesh		
ICME09-FM-11	17:00 – 17:15	NUMERICAL SIMULATION OF A CONFINED LA		
		FLAME WITH VARIABLE PROPERTY FORMULATION		
B. K. Mandal, A.K. Chowdhuri and A. J. Bhowal				
ICI (Eco El (12	17.15 17.20	Bengal Engineering and Science University, India	HCD O HETEG	
ICME09-FM-12	17:15 – 17:30	NUMERICAL SIMULATIONS OF SUPERSONIC M		
		Alam Miah Md. Ashraful, Alam Md. Mahabubul, Mats	uo Shigeru, Setoguchi	
		Toshiaki And Kim Heuy Dong		
ICME09-FM-13	17.20 17.45	Saga University, Japan COMBINED EFFECTS OF CURVATURE AND TOI	DCION ON EL LUD	
ICMEU9-FM-13	17:30 – 17:43	FLOW IN A HELICAL RECTANGULAR DUCT	ASION ON FLUID	
		Prabir Kumar Bhattacharjee and Md. Mahmud Alam		
ICME09-FM-14	17.45 18.00	Khulna University, Bangladesh ENTRANCE FLOW THROUGH ROTATING CURV	ED DIDE OE	
ICIVILU3-1 IVI-14	17.43 - 10.00	CIRCULAR CROSS-SECTION	ED LIFE OF	
		M. A. Masud and Md. Mahmud Alam		
		Khulna University, Bangladesh		
		Khuma Oniversity, Dangiaaesh		

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

	Co-Chair: P	rof. M Ehsan, Dept of ME, BUET	@ 15 minutes
Paper #	Time	Title and Author	
ICME09-TH-08	11:30 - 11:45	INTELLIGENT AIR-CUSHION SYSTEM OF SWAMP	PEAT VEHICLE
		CONTROL: FUZZY LOGIC TECHNIQUE	
		A. Hossain, A. Rahman, A.K.M Mohiuddin	
		International Islamic University Malaysia	
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	
		Azad Rahman, Sharaban Thohura, M.M.A. Sarker, Md. Man	nun Molla
		Stamford University Bangladesh, Bangladesh	
ICME09-TH-10	12:00 - 12:15	MIXED CONVECTION ANALYSIS IN A LID DRIVEN	N TRAPEZOIDAL
		CAVITY WITH ISOTHERMAL HEATING AT BOTTOM	A FOR VARIOUS
		ASPECT ANGLES	
		Md. Nafiz Hossain Khan Chowdhury, Sumon Saha and	l Md. Arif Hasan
		Mamun	

Md. Nafiz Hossain Khan Chowdhury, Sumon Saha and Md. Arif Hasai Mamun BUET, Bangladesh

ICME09-TH-11 12:15 – 12:30 MAGNETOHYDRODYNIC (MHD)-CONJUGATE FREE CONVECTION FLOW FROM AN ISOTHERMAL HORIZONTAL CIRCULAR CYLINDER WITH JOULE HEATING EFFECT

M. A. Azim, Sania Binte Mahtab, M. K. Chowdhury

Southeast University, Dhaka, Bangladesh
H-12 12:30 – 12:45 INFLUENCE OF ENGINE SPEED ON HEAT

ICME09-TH-12 12:30 – 12:45 INFLUENCE OF ENGINE SPEED ON HEAT TRANSFER CHARACTERISTICS OF PORT INJECTION HYDROGEN FUELED ENGINE

M.M. Rahman, Khalaf I. Hamada, M.M. Noor and K. Kadirgama Universiti Malaysia Pahang, Malaysia

ICME09-TH-13 12:45 – 13:00 EXPERIMENTAL INVESTIGATION OF AN OPEN LOOP CLOSED END PULSATING HEAT PIPE

Tahanee Mujib, Fahim Ahmed and Chowdhury Md. Feroz BUET, Bangladesh

Session X (Technical Papers: RT)

Date: 27 December 2009 (Sunday)
Venue: B (ME Departmental Library, EME Building, BUET)

Venue: B (ME	Venue: B (ME Departmental Library, EME Building, BUET)			
11:30 - 13:00	Session Chai	r: Prof. M Tamim, Dept of PMRE, BUET 6 Papers		
	Co-Chair: D	r. MAA Shoukat Choudhury, Dept of ChE, BUET @ 15 minutes		
Paper #	Time	Title and Author		
ICME09-RT-04	11:30 - 11:45	NONLINEAR DYNAMICS OF ELECTROSTATICALLY ACTUATED		
		MICROSTRUCTURES UNDER THE EFFECT OF SQUEEZE FILM		
		DAMPING		
		S Chaterjee and G Pohit		
		Jadavpur University, India		
ICME09-RT-15	11:45 - 12:00	AUTOMATION OF TESTING FACILITIES USING MATLAB		
		M.M. Rahman, Z.M. Hasib		
ICLERO DE 16	12.00 12.15	BUET, Bangladesh		
ICME09-RT-16	12:00 – 12:15	SAVING ELECTRICAL ENERGY USING INTELLIGENT AUTOMATION		
		TECHNOLOGY M.J. NG. Elman, Tamin, Early Palki and M.A.A. Shanket Chandlenge		
		Md. Nafiz Ekram Tamim, Fazle Rabbi and M. A. A. Shoukat Choudhury		
ICME09-RT-37	12.15 12.20	BUET, Bangladesh ELCTRO-MECHANICALLY CONTROLLED CONTINUOUSLY		
ICME09-K1-37	12.13 – 12.30	VARIABLE TRANSMISSION SYSTEM FOR PASSENGER CARS		
		A.K.M. Mohiuddin and Md. Ataur Rahman		
		International Islamic University, Malaysia		
ICME09-RT-38	12:30 - 12:45	APPLICATION OF THERMAL IMAGE: MACHINE FAULT DIAGNOSIS		
1011207 111 00	12.00	USING PCA AND ICA COMBINE WITH SVM		
		Ali MD. Younus, Achmad Widodoa, Bo-Suk Yang		
		Pukyong National University, South Korea		
ICME09-RT-39	12:45 - 13:00	WAVELET CO-EFFICIENT OF THERMAL IMAGE ANALYSIS FOR		
		MACHINE FAULT DIAGNOSIS		
		Ali Md. Younus, Khairul Alam and Bo-Suk Yang		
		Pukyong National University, South Korea		

	Se	ession XI (Technical Papers: AM)	
Date: 27 Decei	mber 2009 (S	unday)	
Venue: C (ME	Department	M.Sc. Room, EME Building, BUET)	
11:30 - 13:00	Session Chai	ir: Prof. M Helali, Dept of ME, BUET	6 Papers
	Co-Chair: D	or. SC Choudhury, Dept of ME, BUET @	15 minutes
Paper #	Time	Title and Author	
ICME09-AM-08	11:30 - 11:45	LARGE AMPLITUDE PERIODIC VIBRATION OF	COMPOSITE
		CYLINDRICAL PANELS	
		M. K. Singha and R. Daripa	
		Indian Institute of Technology Delhi, India	
ICME09-AM-15	11:45 – 12:00	CONTACT STRESSES IN CONICAL ROLLERS UNDER NOR	RMAL AND
		TANGENTIAL LOADINGS	
		Mohammad Wasim Akram, Abu Rayhan Md. Ali Florida Atlantic University, Florida, USA	
ICMF09-AM-16	12:00 - 12:15	2.	RACKS IN
TEMEOS TAM TO	12.00 12.13	WELDED PLATE AND THEIR NON-DESTRUCTIVE TESTIN	11110110 111
		Faizul Mohammad Kamal, Jafar Sadique and S. R. Ahmed	
		Atomic Energy Centre, Bangladesh	
ICME09-AM-17	12:15 – 12:30	FREE AND FORCED VIBRATION EXPERIMENTS ON A CR	OSSBEAM
		SYSTEM	
ICD (FEO.) 13 (10	10.00 10.15		EX. 4 3 15
ICME09-AM-18	12:30 – 12:45		I'Y AND
ICME09-AM-19	12:45 – 13:00		
		POLYETHERSULFONE MEMBRANES	
		Iqbal Ahmed, Ani Idris, M.D.H Beg, Shaharuddin Kormin	
		Ûniversiti Malaysia Pahang, Malaysia	
	12:30 – 12:45	Atomic Energy Centre, Bangladesh FREE AND FORCED VIBRATION EXPERIMENTS ON A CR SYSTEM Anirban Mitra, Prasanta Sahoo and Kashinath Saha Jadavpur University, India RECYCLING OF THERMOPLASTIC COMPOSITES: QUALIT DURABILITY M. D. H. Beg, K. L. Pickering, I. Ahmed, Z. Hassan Universiti Malaysia Pahang, Malaysia INFLUENCE OF ACETONE ON THE PERFORMANCE OF POLYETHERSULFONE MEMBRANES Iqbal Ahmed, Ani Idris, M.D.H Beg, Shaharuddin Kormin	

Session XII (Technical Papers: FM)

Date: 27 December 2009 (Sunday)

Venue: A (Council Building, BUET)

Venue: A (Cou	ncil Building	, BUET)		
14:00 – 16:15	Session Chai	r: Prof. M Mostfizur Rahman, USA	9 Papers	
	Co-Chair: D	r. MM Razzaque, Dept of ME, BUET	@ 15 minutes	
Paper #	Time	Title and Author		
ICME09-FM-15	14:00 - 14:15	FLOW THROUGH A CURVED RECTANGULAR DUC	Γ	
		Rabindra Nath Mondal, Bireshwar Roy and Anup Kumar I	Datta	
		Khulna University, Bangladesh		
ICME09-FM-16	14:15 - 14:30	FLOW CHARACTERISTICS THROUGH A ROTATING CURVED DUCT		
		WITH SQUARE CROSS SECTION		
		R. N. Mondal, A. K. Datta, M. A. Ali and M. S. Uddin		
		Khulna University, Bangladesh		
ICME09-FM-17	14:30 – 14:45	A STUDY OF BADMINTON SHUTTLECOCK AEROD		
		Firoz Alam, Harun Chowdhury, C. Theppadungporn and A	lleksandar Subic	
		RMIT University, Australia		
ICME09-FM-18	14:45 - 15:00	AERODYNAMICS OF TEXTILES FOR ELITE CYCLIS		
		Harun Chowdhury, Firoz Alam, David Mainwaring, Je	ordi Beneyto-Ferre,	
		Margaret Tate, Dorothy Forster and Aleksandar Subic		
100 (F00 F) (10	15.00 15.15	RMIT University, Melbourne, AUSTRALIA		
ICME09-FM-19	15:00 – 15:15	5 PERFORMANCE OF A LOW COST CIRCULAR ARC HORIZONTAL		
		AXIS WIND		
		Sayeda Nazma Yeasmin and Md. Quamrul Islam		
ICME09-FM-20	15:15 – 15:30	Atlas Bangladesh Limited FUZZY LOGIC APPROACH FOR PREDICTION	ON THE LIFT	
ICME09-PM-20	13.13 – 13.30	COEFFICIENT OF AN AIRCRAFT MODEL WITH		
		WINGLET	AND WITHOUT	
		A. Hossain, A. Rahman, A.K.M Mohiuddin, A.K.M.P. Id	ahal M Arifin M	
		Mazian	10ai, 111. 111 ijin, 111.	
		University Industry Selangor, Malaysia		
ICME09-FM-21	15:30 – 15:45	REDISTRIBUTED GAS EXCHANGE MECHANISM IN	HUMAN LUNG'S	
		PERIPHERALS		
		M. U. Ahmmed and H. Hirahara		
		Saitama University, Japan		
ICME09-FM-33	15:45 - 16:00	CONTROLLING THE SIZE DISTRIBUTION	OF EXHALED	
		BIOAEROSOL DROPLETS BY MODULATING THI	E VISCOELASTIC	
		PROPERTIES OF HUMAN AIRWAY MUCUS		
		Md Anwarul Hasan, Carlos F. Lange,, Malcolm King		
		Department of Mechanical Engineering, University of Albe		
ICME09-FM-34	16:00 – 16:15	MHD NATURAL CONVECTION FLOW FROM A POR	OUS VERTICAL	
		PLATE		
		Amena Ferdousi, M. A. Alim		
		Department of Electronics and Electrical Engineering, Ea.	stern University,	
		Bangladesh		

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

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 Co-Chair: Dr. M Shafiqul Islam, BAEC Paper # Time ICME09-TH-14 14:00 – 14:15 OPERATIONAL AND PRESSURE CHARACTERISTICS OF A THERMOLOOP DEVICE K Sharmin, R Roy, S Akhter, M A Islam BUET, Bangladesh ICME09-TH-15 14:15 – 14:30 ENERGY EXTRACTION FROM CONVENTIONAL BRAKING SYSTEM OF AUTOMOBILE Aktaruzzaman and Mohammad Ali BUET, Bangladesh ICME09-TH-16 14:30 – 14:45 A COMPARATIVE STUDY OF MECHANISTIC PARACHOR MODE OVER PARACHOR MODEL IN A MULTI-COMPONEN' HYDROCARBON SYSTEM Mohammad Marufuzzaman, Amr Henni, Azizur Rahman University of Regina, Canada ICME09-TH-17 14:45 – 15:00 EXPERIENTAL INVESTIGATION OF SESSILE DROP EVAPORATION AND ITS RELATION WITH LEIDENFROST TEMPERATURE
Venue: B (ME Departmental Library, EME Building, BUET) 14:00 – 15:45 Session Chair: Prof. M Al Nur, Dept of ME, BUET Co-Chair: Dr. M Shafiqul Islam, BAEC Paper # ICME09-TH-14 14:00 – 14:15 OPERATIONAL AND PRESSURE CHARACTERISTICS OF THERMOLOOP DEVICE K Sharmin, R Roy, S Akhter, M A Islam BUET, Bangladesh ICME09-TH-15 14:15 – 14:30 ENERGY EXTRACTION FROM CONVENTIONAL BRAKING SYSTEM OF AUTOMOBILE Aktaruzzaman and Mohammad Ali BUET, Bangladesh ICME09-TH-16 14:30 – 14:45 A COMPARATIVE STUDY OF MECHANISTIC PARACHOR MODEL OVER PARACHOR MODEL IN A MULTI-COMPONEN HYDROCARBON SYSTEM Mohammad Marufuzzaman, Amr Henni, Azizur Rahman University of Regina, Canada ICME09-TH-17 14:45 – 15:00 EXPERIENTAL INVESTIGATION OF SESSILE DROP EVAPORATION
14:00 – 15:45 Session Chair: Prof. M Al Nur, Dept of ME, BUET Co-Chair: Dr. M Shafiqul Islam, BAEC Paper # ICME09-TH-14 14:00 – 14:15 OPERATIONAL AND PRESSURE CHARACTERISTICS OF THERMOLOOP DEVICE K Sharmin, R Roy, S Akhter, M A Islam BUET, Bangladesh ICME09-TH-15 14:15 – 14:30 ENERGY EXTRACTION FROM CONVENTIONAL BRAKING SYSTEM OF AUTOMOBILE Aktaruzzaman and Mohammad Ali BUET, Bangladesh ICME09-TH-16 14:30 – 14:45 A COMPARATIVE STUDY OF MECHANISTIC PARACHOR MODEL OVER PARACHOR MODEL IN A MULTI-COMPONENT HYDROCARBON SYSTEM Mohammad Marufuzzaman, Amr Henni, Azizur Rahman University of Regina, Canada ICME09-TH-17 14:45 – 15:00 EXPERIENTAL INVESTIGATION OF SESSILE DROP EVAPORATION
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OF AUTOMOBILE Aktaruzzaman and Mohammad Ali BUET, Bangladesh ICME09-TH-16 14:30 – 14:45 A COMPARATIVE STUDY OF MECHANISTIC PARACHOR MODE OVER PARACHOR MODEL IN A MULTI-COMPONEN HYDROCARBON SYSTEM Mohammad Marufuzzaman, Amr Henni, Azizur Rahman University of Regina, Canada ICME09-TH-17 14:45 – 15:00 EXPERIENTAL INVESTIGATION OF SESSILE DROP EVAPORATION
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ICME09-TH-16 14:30 – 14:45 A COMPARATIVE STUDY OF MECHANISTIC PARACHOR MODEL OVER PARACHOR MODEL IN A MULTI-COMPONENT HYDROCARBON SYSTEM Mohammad Marufuzzaman, Amr Henni, Azizur Rahman University of Regina, Canada ICME09-TH-17 14:45 – 15:00 EXPERIENTAL INVESTIGATION OF SESSILE DROP EVAPORATION
OVER PARACHOR MODEL IN A MULTI-COMPONENT HYDROCARBON SYSTEM Mohammad Marufuzzaman, Amr Henni, Azizur Rahman University of Regina, Canada ICME09-TH-17 14:45 – 15:00 EXPERIENTAL INVESTIGATION OF SESSILE DROP EVAPORATION
HYDROCARBON SYSTEM Mohammad Marufuzzaman, Amr Henni, Azizur Rahman University of Regina, Canada ICME09-TH-17 14:45 – 15:00 EXPERIENTAL INVESTIGATION OF SESSILE DROP EVAPORATION
Mohammad Marufuzzaman, Amr Henni, Azizur Rahman University of Regina, Canada ICME09-TH-17 14:45 – 15:00 EXPERIENTAL INVESTIGATION OF SESSILE DROP EVAPORATION
ICME09-TH-17 14:45 – 15:00 EXPERIENTAL INVESTIGATION OF SESSILE DROP EVAPORATION
AND ITS RELATION WITH LEIDENFROST TEMPERATURE
A.K. Mozumder, M.R. Ullah and A. Hossain
BUET, Bangladesh ICME09-TH-18 15:00 – 15:15 EXPERIMENTAL INVESTIGATION OF A HEAT PIPE FOR DIFFEREN
WORKING FLUIDS AND FILL RATIOS
Aloke Kumar Mozumder, Abul Fahad Akon and Md. Shafiul Hasib Chowdhur
BUET, Bangladesh
ICME09-TH-19 15:15 – 15:30 GENERATION OF BIOGAS FROM ANEROBIC DIGESTION O
VEGETABLE WASTE
M. Islam, B. Salam and A. Mohajan CUET, Bangladesh
ICME09-TH-20 15:30 – 15:45 THE ROLE OF TRANSESTERIFICATION PERIOD ON THE EFFECT O
ENGINE PERFORMANCE PARAMETERS USING SOYBEAR
BIODIESEL AND DIESEL BLENDS
Swarup Paul, P.K. Bose and Bijan Sarkar
NIT Agartala, India

Session XIV (Technical Papers: RT)

Date: 27 December 2009 (Sunday) Venue: C (ME Department M Sc R

Venue: C (ME Department M.Sc. Room, EME Building, BUET)			
14:00 - 15:45	Session Chai	r: Prof. S Karim Chowdhury, VC, RUET 7 Papers	
	Co-Chair: P	rof. Nuruzzaman, Head, Dept. of ME, DUET @ 15 minutes	
Paper #	Time	Title and Author	
ICME09-RT-12	14:00 - 14:15	A MODEL FOR PREVENTIVE MAINTENANCE SCHEDULING – A STEP	
		TO IMPLEMENT TPM IN ORGANIZATIONS	
		Abul Mukid Mohammad Mukaddes, Nazi Faisal Ahmed Chowdhury and Md.	
		Moin Uddin	
		SUST, Bangladesh	
ICME09-RT-13	14:15 – 14:30	FACTORS AFFECTING PRODUCTIVE EFFICIENCY	
		OF THE APPAREL INDUSTRY OF BANGLADESH	
		Dr. Syed Nadeem Ahmed, Dr. Ahsan Akhter Hasin	
ICME09-RT-18	14.20 14.45	Secretary, BIDS DEVELOPMENT OF THE CONCEPT OF OVERALL WORK	
ICME09-K1-10	14.30 – 14.43	COMPATIBILITY: INTEGRATING IMPORTANT WORK VARIABLES	
		Farhana Afreen Proma, Dr. M. Ahsan Akhtar Hasin and Tahera Yesmin	
		BUET, Bangladesh	
ICME09-RT-20	14:45 - 15:00	MULTI-OBJECTIVE OPTIMIZATION OF CUTTING PARAMETERS FOR	
		SURFACE ROUGHNESS IN CYLINDRICAL GRINDING USING	
		RESPONSE SURFACE METHOD	
		B. C.Routara, P. Sahoo, A. Bandyopadhyay	
		KIIT University, INDIA	
ICME09-RT-21	15:00 – 15:15	IDENTIFICATION OF INSTABILITIES OF CHIP FORMATION BY	
		IMAGE PROCESSING TECHNIQUE	
		Md. Anayet U Patwari, A.K.M. Nurul Amin, W. Faris	
ICME09-RT-22	15:15 – 15:30	Islamic University of Technology, Dhaka FABRICATION OF HIGH-ASPECT-RATIO EDM MICROELECTRODES	
ICME09-K1-22	13.13 – 13.30	USING ON-THE-MACHINE TOOL FABRICATION TECHNIQUES	
		M.P. Jahan, M. Rahman, Y.S. Wong, L. Fuhua	
		National University of Singapore, Singapore	
ICME09-RT-23	15:30 – 15:45		
		PHARMACEUTICAL PRODUCT USING PARETO AND CAUSE-EFFECT	
		ANALYSIS	
		Sanjoy K Paul and Abdullahil Azeem	
		BUET, Bangladesh	

Session XV (Technical Papers: AM)

Date: 27 December 2009 (Sunday)

Venue: A (Council Building, BUET)

Venue: A (Council Building, BUET)				
16:00 – 18:00	Session Chai	ir: Prof. A R M Ali, Head, Dept of ME, BUET 8 Papers		
	Co-Chair: D	r. Md. Moniruzzaman, Dept of MME, BUET @ 15 minutes		
Paper #	Time	Title and Author		
	16:00 – 16:15	A VIBRATION ISOLATION SYSTEM USING STIFFNESS VARIATION		
101/1207 11/1 20	10.00	CAPABILITY OF ZERO-POWER CONTROL		
		Md. Emdadul Hoque, Takeshi Mizuno, M. M. Zaglul Shahadat, Yuji Ishino ²		
		and Masaya Takasaki		
		RUET, Bangladesh		
ICME09-AM-21	16:15 – 16:30	THEORETICAL AND NUMERICAL OPTIMIZATION OF		
101/120/ 11/1/ 21	10.10	AUTOFRETTAGE IN STRAIN HARDENED THICK-WALLED		
		CYLINDERS		
		Nidul Ch. Ghosh, Tanvir-E-Alam , Abu Rayhan Md. Ali		
		BUET, Bangladesh		
ICME09-AM-22	16:30 – 16:45	NUMERICAL ANALYSIS TO INVESTIGATE THE FIBER SIZE EFFECTS		
		ON COMPOSITE STRENGTH		
		N.M. Awlad Hossain		
		Eastern Washington University, USA		
ICME09-AM-23	16:45 - 17:00	POLYIMIDE NANO-HYBRID: ENHANCE MECHANICAL-THERMAL		
		PERFORMANCE		
		Shaikh Md. Mominul Alam, Ismat Ara, Mashud Ahmed		
		College of Textile Technology, Bangladesh		
ICME09-AM-24	17:00 - 17:15	DETERMINATION OF CHIRALITY (n,m) OF SINGLE-WALLED		
		CARBON NANOTUBES FROM ABSORPTION SPECTRA		
		Muhammad Monzur Morshed, Shamsul Arefin Siddiqui, Raju Sinha and Sharif		
		Mohammad Mominuzzaman		
		BUET, Bangladesh		
ICME09-AM-25	17:15 - 17:30	DETERMINATION OF HARDENING MODULUS OF PLATINUM		
		NANOWIRES		
		M. A. Salam Akanda, H. Tohmyoh and M. Saka		
		Tohoku University, Japan		
ICME09-AM-26	17:30 - 17:45	MECHANICAL PROPERTIES OF LYOCELL FIBER REINFORCED		
		POLYPROPYLENE COMPOSITES		
		F. A. Mirza, A. M. Afsar, B. S. Kim, and J. I. Song		
		Changwon National University, Korea		
ICME09-AM-31	17:45 - 18:00	MODELING OF THE LONGITUDINAL ELASTIC MODULUS OF		
		CARBON NANOTUBE REINFORCED NANOCOMPOSITES		
		S. C. Chowdhury, M. S. Islam and A. R. M. Ali		
		BUET, Bangladesh		

Session XVI (Technical Papers: FM)

Date: 27 December 2009

Venue: B (ME Departmenta	l Library, EME	Building, BUET)
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Venue: B (ME	Venue: B (ME Departmental Library, EME Building, BUET)			
16:00 – 18:30 Session Chair: Prof AKM Sadrul Islam, IUT 10 Papers				
	Co-Chair: P	rof. M Mahbulbul Alam, Head, Dept of ME, CUET @ 15 minutes		
Paper #	Time	Title and Author		
ICME09-FM-22	16:00 – 16:15	STENOSIS LENGTH AND ITS IMPACT ON FLOW OF BLOOD		
		THROUGH RECTANGULAR STENOSED CORONARY ARTERY		
		S. Chakrabarti and D. K. Mandal		
		Bengal Engineering and Science University, India		
ICME09-FM-23	16:15 – 16:30	AERODYNAMICS OF FOOTBALLS		
		Firoz Alam, Harun Chowdhury, Christopher Whyte and Aleksandar Subic		
		RMIT, Australia		
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		
		A.Motin, M.A.T. Ali		
100 (E00 E) (0 c	16.45 45.00	BUET, Bangladesh		
ICME09-FM-26	16:45 – 17:00	CHARACTERISTICS OF TWIN AXISYMMETRIC FREE JETS		
		Mohammed A. Azim		
ICMEON EM 27	17.00 17.15	BUET, Bangladesh AERODYNAMICS OF VEHICLE ADD-ONS		
ICMEU9-FM-27	17:00 – 17:13			
		Firoz Alam, Harun Chowdhury and Simon Watkins RMIT, Australia		
ICMF09_FM_29	17:15 - 17:30	MIXING OF SUPERSONIC JETS WITH DIFFERENT MERGING ANGLES		
TCMEO) TWI 2)	17.13 17.30	FOR CONSTANT INLET PRESSURE AND VELOCITY		
		Mohammad Ali, M Quamrul Islam, TAGN Jubery and S M Nazrul Islam		
		BUET, Bangladesh		
ICME09-FM-30	17:30 - 17:45	EFFECT OF GAS WEBER NUMBER ON LIQUID SHEET BREAKUP		
		Mohammad Ali, M. Quamrul Islam and R. Mahamud		
		BUET, Bangladesh		
ICME09-FM-31	17:45 - 18:00	EFFECTS OF RADIATION AND PRESSURE WORK ON MHD		
		NATURAL CONVECTION FLOW AROUND A SPHERE		
		M. A. Alim and Tahmina Akhter		
		BUET, Bangladesh		
ICME09-FM-35	18:00 – 18:15	EXPERIMENTAL STUDY OF THERMALLY STRATIFIED CO-AXIAL		
		JETS WITH TRIP RING EXCITATION		
		M. A. T. ALI, Sukanta BHATTACHARJEE		
ICME09-FM-36	19.15 19.20	BUET, Bangladesh ANALYSIS OF A NEGATIVELY BUOYANT JET		
1CIVIL:03-1:1VI-30	10.15 - 10.50	Chandan Kumar, D. Das and M.M. Razzaque		
		BUET, Bangladesh		
		DODI, Danguacin		

	Ses	ssion XVII (Technical Papers: TH)
Date: 27 Decei		
Venue: C (ME	Department 1	M.Sc. Room, EME Building, BUET)
16:00 - 18:00		ir: Prof. M A R Sarkar, Dept of ME, BUET 8 Papers
		or. Ali Haider, GM, Esquire Knitting @ 15 minutes
Paper #	Time	Title and Author
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 M. A. H. Mamun, M. M. Rahman, and Shuichi Nagata
ICME09-TH-22	16:15 – 16:30	Saga University, Japan EXPERIMENTAL INVESTIGATION OF HEAT TRANSFER CHARACTERISTICS OF CYLINDRICAL FIN WITH DIFFERENT GROOVES Mohammad Mashud, Md. Kazi Mostafijur Rahman, Zinat Rahman Arani and
ICME09-TH-23	16:30 – 16:45	Afsanul Tanveer KUET, Bangladesh STEADY-STATE SOLUTIONS OF HEAT AND MASS TRANSFER FLOW FROM A VERTICAL POROUS PLATE WITH THERMAL DIFFUSION AND INDUCED MAGNETIC FIELD Md. Mohidul Haque and Md. Mahmud Alam
ICME09-TH-24	16:45 – 17:00	Khulna University, Bangladesh THERMAL PERFORMANCE OF PARALLEL MINIATURE HEAT PIPE SYSTEM Chowdhury Md. Feroz, Mohammad Mamunur Rahman, Md. Hasibul Alam,
ICME09-TH-25	17:00 – 17:15	and Auvi Biswas BUET, Bangladesh NUMERICAL STUDY OF A TWO-STAGE ADSORPITON CHILLER EMPLOYING RE-HEAT SCHEME WITH DIFFERENT MASS RATIOS M. Z. I. Khan, SK. Farid, S. Sultana BUET, Bangladesh
ICME09-TH-26	17:15 – 17:30	BUET, Bangladesh NON-CONVENTIONAL USE OF SMALL DIESEL ENGINES: CASE STUDIES M Ehsan, M N I Kabir, S Reza, and M S Sultana
ICME09-TH-27	17:30 – 17:45	BUET, Bangladesh WASTE VEGETABLE OIL AS AN ALTERNATIVE FUEL FOR DIESEL ENGINE Soma Chakraborty, Amit Adhikary, Maglub Al Nur
ICME09-TH-28	17:45 – 18:00	DUET, Bangladesh MORPHOLOGICAL STUDY OF THE PARTICULATE MATTER

AND DUAL FUEL MODES Nirendra N Mustafi, Robert R Raine

RUET, Bangladesh

SAMPLED FROM THE EXHAUST OF A DIESEL ENGINE IN DIESEL

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)

Venue: A (Cou	incil Building	, BUET)		
11:30 - 13:00	Session Chai	r: NC Shutradhar, DG Technical Education	6 Papers	
	Co-Chair: P	rof M Aminul Islam, Dept of MME, BUET	@ 15 minutes	
Paper #	Time	Title and Author		
ICME09-RT-25	11:30 - 11:45	HYDRODYNAMIC INTERACTION FOR A LONG AR	RAY OF FREELY	
		FLOATING 3-D RECTANGULAR BOXES		
		Mir Tareque Ali and Tasnuva Anan		
		BUET, Bangladesh		
ICME09-RT-26	11:45 - 12:00	ANALYSIS OF TRANSOM STERN FLOWS BY MOI	DIFIED RANKINE	
		SOURCE PANEL METHOD	G 1	
		Md. Shahjada Tarafder, Gazi Md. Khalil and Goutam Kum	ar Saha	
ICME09-RT-42	12.00 12.15	BUET, Bangladesh A MODEL OF A CVT ADJUSTMENT DRIVE BASED	ON TO ANCIENT	
ICME09-K1-42	12:00 – 12:13	RESPONSE	ON TRANSIENT	
		S. C. Banik, S. M. Mahfuzur Rahman and A. K. Mozumder		
		CUET, Bangladesh		
ICME09-RT-44	12:15 – 12:30	PREPARATION OF CARBON NANOTUBE GAS SEN	SORS BY INKJET	
		PRINTING PROCESS FOR MONITORING OF POLLUT	'ANT NO _X GAS IN	
		AIR		
		M.M.H. Bhuiyan, K. Senba, R. Hayashi, F. Mitsugi, T. Ikeg	заті	
		Kumamoto University, Japan		
ICME09-RT-49	12:30 - 12:45	DEVELOPMENT AND EVALUATION OF HYDRAULION OF	C SIMULATION	
		MODEL FOR WHEEL LOADER		
		Khairul Alam, Sung Hee Park, Chang Don Lee and Soon Y	ong Yang	
ICME09-RT-50	12.45 12.00	Institute of e-vehicle Technology, Korea NANO-HYBRIDS OF POLYIMIDE BY IN-SITU FORMI	ED.	
1CME03-K1-30	12.43 - 15:00	NANO-ILLEKIDS OF POLITIMIDE DI IN-SILU FORMI	ענ	

00 NANO-HYBRIDS OF POLYIMIDE BY IN-SITU FORMED POLYSILOXANES

 ${\it Md.\ Hafezur\ Rahaman,\ Ismat\ Ara,\ Shaikh\ Md.\ Mominul\ Alam}$

Islamic University, Bangladesh

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COGGIOTO	Technical Papers	
Session A A		S: VIISC.)
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Date: 28 December 2009 (Monday)
Venue: B (ME Departmental Library, EME Building, BUET)

Venue: B (ME Departmental Library, EME Building, BUET)			
11:30 – 13:30		ir: Prof. Gazi Md. Khalil, NAME, BUET	8 Papers
	Co-Chair: P	rof. M Zahurul Haq, Dept of ME, BUET	@ 15 minutes
Paper #	Time	Title and Author	
ICME09-TH-29	11:30 - 11:45	PERFORMANCE OF A BIOGAS RUN STIRLING GENE	ERATOR
		Md. Shahzada Chowdhury and Md. Ehsan	
		Bangladesh Railway, Bangladesh	
ICME09-TH-30	11:45 - 12:00		DIESEL AS AN
		ALTERNATIVE FUEL FOR DIESEL ENGINE	
		A. Forhad, A. R. Rowshan, M. A. Habib, M. A. Islam	
		BUET, Bangladesh	
ICME09-TH-31	12:00 – 12:15	CARBON STEEL QUENCHING AND MAXIMUM H	EAT FLUX WITH
		WATER JET IMPINGEMENT	
		A. K. Mozumder, M. Ahmed and M. Monde BUET, Bangladesh	
ICME00 TH 32	12:15 12:30	NUMERICAL ANALYSIS FOR TEMPERATURE ASSE	SCOMENT OF THE
ICME09-111-32	12.13 – 12.30	IRRADIATED TEO2 POWDER IN THE DRY CENTR	
		THE 3MW TRIGA MARK-II RESEARCH REACTOR	THE THINDEL OF
		M.S.Islam, S.B.Samee, M.M.Uddin and M.Mamun	
		Atomic Energy Research Establishment, Dhaka, Banglades	:h
ICME09-TH-33	12:30 - 12:45	FORCED CONVECTION HEAT TRANSFER IN A TU	
		THROUGH A RIBBED AND NON – RIBBED SQUARE	DUCT
		Mollah M. M.H, Karim K.R, Ali M. A.T, Akhanda M.A.R	& Sarkar M.A.R
		BUET, Bangladesh	
ICME09-FM-05	12:45 - 13:00	CONVECTIVE HEAT TRANSFER FROM HEATER	OBJECT IN A
		SQUARE ENCLOSURE	
		Haque, M. I. and Hossain, K. A.	
ICMEON EM 24	12.00 12.15	KUET, Bangladesh EFFECT OF A HEATED HOLLOW CYLINDER ON (COMPINED EDEE
ICMEU9-FM-24	13.00 – 13.13	AND FORCED CONVECTION IN A VENTILATED CA	
		M. M. Rahman, M. A. Alim and M. A. H. Khan	V11 1
		BUET, Bangladesh	
ICME09-FM-37	13:15 – 13:30	TURBULENT FLOW IN A RIBBED AND NON- RIBBE	D SOUARE DUCT
,		Mollah M. M. H., Karim K.R, Ali M. A.T, Akhanda M.A.R.	
		BUET, Bangladesh	

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 gr. Jafar Sadique, BAEC	7 Papers @ 15 minutes
Paper #	Time	Title and Author	e 13 minutes
ICME09-RT-24	11:30 – 11:45	PARAMETRIC OPTIMIZATION OF CNC WIRE GREY RELATIONAL ANALYSIS B. C. Routara, B.K. Nanda, D.R.Patra	CUT EDM USING
ICME09-RT-27	11:45 – 12:00	KIIT University, India MOLECULAR DYNAMICS STUDY OF AFM BA PROCESS Hanif Muhammad Khan and Sung-Gaun Kim	SED MACHINING
ICME09-RT-28	12:00 – 12:15	Kongju National University, Korea RESPONSE SURFACE MODELING OF FRACTAL CNC TURNING T K Barman, P Sahoo	L DIMENSION IN
ICME09-RT-29	12:15 – 12:30	Jadavpur University, India FRACTAL DIMENSION MODELING IN CNC TAGUCHI METHOD T K Barman, P Sahoo Jadavpur University, India	MILLING USING
ICME09-RT-30	12:30 – 12:45	A HOLISTIC APPROACH FOR DUST PREVENTION OF LEV AND PREVENTION UNITS Abdullah-Al-Mamun, Farhana Mahboob Nijhoom and F BUET, Bangladesh	
ICME09-RT-47	12:45 – 13:00	PROBLEM ANALYSIS AND PRODUCTIVITY IMP KNITWEAR CUTTING SECTION: A CASE ST KNITWEAR Seratun Jannat, Md. Niaz Sharif, Sharmin Nahar Mith	TUDY OF ABONI
ICME09-RT-55	13:00 – 13:15	Khan, BUET, Bangladesh EFFECT OF SCANDIUM ON THE CAST Al-Si-Mg A M. S. Kaiser, M. R. Basher, and A. S. W. Kurny BUET, Bangladesh	-

Session XXII (Technical Papers: RT)

Date: 28 December 2009 (Monday)

Venue: A (Council Building, BUET)

14:00 – 15:45		r: Prof. Qumrul Ahsan, Dept of MME, BUET	8 Papers
		rof. MA Rahman, Dept of ME, BUET	@15 minutes
Paper #	Time	Title and Author	
ICME09-RT-01	14:00 - 14:15	STUDY OF MICROSTRUTURE AND TEMPERA	TURE DEPENDENT
		LOW FREQUENCY AC PROPERTY OF Ni _{0.46} Z	$Cn_{0.54}Ca_{0.05}Fe_2O_4$ FOR
		MECHATRONICS AND ELETRONIC DEVICE AP	
		H. M. Iftekhar Jaim, F A Khan, BUET, Bangladesh	
ICME09-RT-02	14:15 – 14:30	FRICTION BEHAVIOUR OF ELECTROLESS Ni-B	COATINGS
		Prasanta Sahoo and Suman Kalyan Das	
		Jadavpur University, India	
ICME09-RT-03	14:30 - 14:45	OPTIMIZATION OF ELECTROLESS Ni-B COATINGS BASED ON	
		MUTIPLE ROUGHNESS CHARACTERISTICS	
		Suman Kalyan Das and Prasanta Sahoo	
		Jadavpur University, India	
ICME09-RT-05	14:45 – 15:00	INVESTGATION OF STRUCTURAL AND MAGN	
		OF Co _{1-x} Zn _x Fe ₂ O ₄ PREPARED BY COMBUSTION 7	
		M. H. R. Khan, Farhad Alam, M. N. I. Khan, M.A. Ha	kım, D.K. Saha, and
ICMEGO DE OO	15.00 15.15	A. K. M. Akther Hossain, AUST, Bangladesh	ZATION IN AID OF
ICME09-RT-08	15:00 – 15:15	LASER CLEANING AND METAL CHARACTERI ARTEFACT PRESERVATION AND	
		TECHNOLOGY INVESTIGATION AND	ARCHAEO-METAL
		Barnali Mandal, P. K. Chattopadhyay, Dipten Misra a	and D.V. Datta
		Jadavpur University, India	ına 1 .K. Dana
ICME09-RT-14	15:15 - 15:30	STUDIES ON TIN OXIDE (SnO2) AND CU DOPEI	SnO2 THIN FILMS
ICME07-K1-14	13.13 13.30	DEPOSITED BY SPRAY PYROLYSIS TECHNIQ	
		MATERIALS IN SOLAR CELLS	CE TOR WINDOW
		S. S. Roy and J. Podder	
		Dwarika Paul Mohila Degree College, Bangladesh	
ICME09-RT-17	15:30 - 15:45	WEAR BEHAVIOUR OF NODULAR CAST IRON	
		N. Fatima and M.A. Islam	
		BUET, Bangladesh	
ICME09-AM-03	15:45 - 16:00	EFFECT OF VARIOUS AMOUNT OF Cu ON TH	HE THERMAL AND
		MECHANICAL BEHAVIOR OF Sn-Zn EUTECTIO	C Pb-FREE SOLDER
		ALLOY	
		M. Rahman, A. Sharif, and Mansur Ahmed, BUET, Ba	ngladesh

Session XXIII (Technical Papers: Misc.) Date: 28 December 2009 (Monday) Venue: B (ME Departmental Library, EME Building, BUET)

Venue: B (ME Departmental Library, EME Building, BUET)			
14:00 - 16:00	Session Chai	ir: Prof. Dil Afroz Begum, Head, ChE, BUET 8 Papers	
	Co-Chair: D	r. S. Sultana Razia, Dept of ChE, BUET @ 15 minutes	
Paper #	Time	Title and Author	
-	14:00 – 14:15	BIOGAS FROM ANAEROBIC DIGESTION OF FISH WASTE	
Tember 100	11.00 11.15	B. Salam, M. Islam and M. T. Rahman	
		CUET, Bangladesh	
ICME09-RT-43	14.15 - 14.30	CONSIDRATION OF ENGINEERING ETHICS AS A NECESSARY	
ICMEO) KI 45	14.15 14.50	ATTRIBUTE FOR PREPARING ETHICAL ENGINEERS IN PAPUA	
		NEW GUINEA	
		John Pumwa	
		Papua New Guinea University of Technology, Papua New Guniea	
ICMF09-RT-51	14.30 - 14.45	DEVELOPMENT OF A SEPARABLE CAR SEAT TYPE MULTI	
ICMEO) KI 31	14.30 14.43	FUNCTIONAL STROLLER BY OPTIMIZATION	
		Md.Fuhad Hassan and Euy Sik Jeon	
		KNU, South Korea	
ICME09-RT-52	14:45 – 15:00	AN EXPERIMENTAL INVESTIGATION OF VEGETABLE OIL BASED	
10111207 111 02	1.1.10 10.00	CUTTING FLUID ON DRILLING MEDIUM CARBON STEEL BY HSS	
		DRILL BIT	
		M. A. Islam, M. J. Uddin, M. A. Alim and N. R. Dhar	
		RUET, Bangladesh	
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	
		S. Sultana, Prianka B. Zaman, and N. R. Dhar	
		DIU, Bangladesh	
ICME09-RT-54	15:15 – 15:30	OPTIMIZATION OF RETAIL DISTRIBUTION NETWORK: A CASE	
		STUDY	
		Md Mazharul Hoque, Abdullahil Kafy and Abdullahil Azeem	
		BUET, Bangladesh	
ICME09-AM-06	15:30 - 15:45	COMPARATIVE PERFORMANCE AND VERIFICATION STUDY OF	
		SIMPLIFIED SPOT WELD MODELS	
		K. N. Ahsan Noman, Monir Takla, Thomas Ting	
		RMIT, Australia	
ICME09-AM-32	15:45 - 16:00	ON THE DISPLACEMENT-POTENTIAL SOLUTION OF PLANE	
		PROBLEMS OF STRUCTURAL MECHANICS WITH MIXED	
		BOUNDARY CONDITIONS	
		S K Deb Nath and S R Ahmed	
		Kongju National University, South Korea	

Session XXIV (Technical Papers: Misc.)

Date: 28 December 2009 (Monday)

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

14:00 - 16:00		: 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 TEMPE GASIFICATION OF BLACK LIQUOR FOR POWER Of M. M. Rahman, W. Yang	
ICME09-RT-09	14:15 – 14:30	CUET, Bangladesh UNUSUAL WIND BEHAVIOUR AT SITAKUNDU O A. K. Azad and Dr. M. M. Alam BUET, Bangladesh	F BANGLADESH
ICME09-RT-10	14:30 – 14:45	BUET, Bangladesh FIXED BED PYROLYSIS OF DATE SEED WASTE PRODUCTION	-
ICME09-RT-11	14:45 – 15:00	Mohammad Nurul Islam, S. M. Najmul Hoque and Hossain Joardder RUET, Bangladesh OPTIMIZATION STUDY OF A SOLAR-OPER BROMIDE-WATER COOLING SYSTEM WITH COLLECTORS K. K. Datta Gupta, D. N. Basu and S. Chakravarti	RATED LITHIUM
ICME09-RT-19	15:00 – 15:15	Bengal Engg. & Science University, INDIA ENVIRONMENTAL POLLUTION OF BANGLADE AND CONTROL G.M. Jahangir Alam	SH – ITS EFFECT
ICME09-RT-40	15:15 – 15:30	Bangladesh Air Force, Bangladesh PREDICTION AND EVALUATION OF BOR FAILURES RISK IN SHALE UNDER IN-SITU ST SENSITIVITY ANALYSIS Md. Aminul Islam and Pål Skalle	
ICME09-RT-45	15:30 – 15:45	NTNU, Norway ESTIMATION OF VEHICLE INDUCED EMISSION URBAN AREAS IN DHAKA CITY Armana Sabiha Huq BUET, Bangladesh	NS OF SELECTED
ICME09-RT-48	15:45 – 16:00	SMALL ANGLE NEUTRON SCATTERING STUMMICELLES I. Kamal, F. U. Ahmed, P.S. Goyal and G.U. Ahmad Bangladesh Atomic Energy Commission, Bangladesh	DIES ON MIXED