

ICME 2007 Program Schedule

INAUGURAL SESSION

Date: 30 December 2007
Venue: Council Building

09:30 AM	Guests take their seats
09:35 AM	Recitation from the Holy Quran
09:40 AM	Welcome address by Head of the Department
09:45 AM	Welcome address by the Chairman, Organizing Committee- Prof. Dr. M.A. Taher Ali
09:50 AM	Speech of the Chief Guest- Prof. Dr. A.M.M. Safiullah, Honourable Vice-Chancellor, BUET
09:55 AM	Vote of Thanks- Prof. Dr. M. Zahurul Haq Member Secretary of <i>ICME2007</i>
10:00 AM	Refreshment

SESSION-A1.1 (Keynote paper)

Session A1.1

10:30 – 11:00 AM	Keynote Paper #1: <i>Atmospheric-Pressure Plasma Microdischarges for High-Rate Deposition</i> Speakers: <i>Prof. Dr. Bakhtier Farouk</i>
11:00 – 11:30 AM	Keynote Paper #2: <i>Organised structures in wall turbulence</i> Speakers: <i>Prof. Dr. P.K. Sen</i>

Session-A1.2

Date: 30 December 2007

Venue: Council Building, BUET

11:45 AM – 12:45 PM **Session A1.2** 4 papers = 4 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
183	11:45	Dynamic Analysis of Pitch Plane Railway Vehicle-Track Interactions due to Wheel Flat <i>Rajib Ul Alam Uzzal, Waiz Ahmed and Subhash Rakheja</i>
172	12:00	Evaluation of a Conventional Dust Ventilation/Collection System in an Underground Mine Crushing Plant <i>J. A. Naser</i>
180	12:15	The Effects of Mechanical Fibre Beating, Reprocessing and Hygrothermal Ageing of Wood Fibre Reinforced Polypropylene Composites <i>M. D. H. Beg and K. L. Pickering</i>
250	12:30	Near Real-Time Bulk Traffic Rerouting Under Distress Condition <i>Andrew K. Even, Shabbir Choudhuri and Charles Standridge</i>

Session-A1.3

Date: 30 December 2007

Venue: Council Building, BUET

2:00 – 3:30 PM

Session A1.3

6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
092	2:00	Fuzzy-Sliding Mode Control of a SMA Manipulator <i>Kyoung Kwan Ahn, S M Mahfuzur Rahman and Nguyen Bao Kha</i>
085	2:15	Selection of Optimum Cutting Conditions Using a Size Tolerance Prediction Model for Peripheral End Milling <i>M. N. Islam, Han Ul Lee and Dong-Woo Cho</i>
167	2:30	A Brief Overview of Research Activities on Podded Propulsors in Memorial University of Newfoundland and Part A: Experimental Activities <i>Islam M, Veitch B and Liu P</i>
089	2:45	Design, Dynamics Simulation and Controllability of Snakeboard <i>A.Nikbakht and H.Sayyaadi</i>
330	3:00	Flexural Response of Lightweight Sandwich Panels for Panelized Construction <i>Amol Vaidya, Nasim Uddin and Uday Vaidya</i>
050	3:15	Investigation on Abrasive Water Jet Machining of Kevlar Reinforced Phenolic Composite Using Taguchi Approach <i>M. A. Azmir, A.K. Ahsan and A. Rahmah</i>

Session-A1.4

Date: 30 December 2007

Venue: Council Building, BUET

3:40 – 5:00 PM **Session A1.4** 5 papers = 5 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
370	3:40	Dry Sliding Wear Behavior of Hybrid MMCS with Varying Orientations and Hybrid Ratios <i>Yi Qi Wang, Yu Shi, Won Kyung Joo and Jung Il Song</i>
028	3:55	Surface Roughness Analysis of Beryllium-Copper Alloy in Micro End Milling <i>R. Mehruz and M. Y. Ali</i>
064	4:10	Dynamics Simulation of Two Biped Running Robots <i>M.Mohammadi and H. Sayyaadi</i>
060	4:25	Use of Desirability Function Approach for Optimization of Multiple Performance Characteristics of the Surface Roughness Parameters in CNC Turning <i>B. C. Routara, A. Bandyopadhyay and P. Sahoo</i>
051	4:40	Development of Tool Life Prediction Model for PCBN Inserts during the High Speed End Milling of AISI H13 Hardened Tool Steel <i>A.M. Khalid Hafiz, AKM Nurul Amin, ANM Mustafizul Karim and M.A. Lajis</i>

Session-B1.1

Date: 30 December 2007

Venue: Post Graduate Lecture Room, Dept. of ME, EME Building, BUET

09:30 – 11:30 AM

Session B1.1

Keynote session at council building

Session-B1.2

Date: 30 December 2007

Venue: Post Graduate Lecture Room, Dept. of ME, EME Building, BUET

11:45 AM – 12:45 PM **Session B1.2** 4 papers = 4 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
185	11:45	TPM Implementation Can Promote Development of TQM Culture: Experience From a Case Study in a Malaysian Manufacturing Plant <i>Sia Soon Siong and Shamsuddin Ahmed</i>
014	12:00	Measurement of Structure-Borne Sound in Trapezoidal Corrugated Plates <i>Nirmal Kumar Mandal</i>
019	12:15	The Power of Simplicity: Design of Flexible, Changeable and Efficient Assembly Systems Through Systematic Complexity Reduction <i>Dominik T. Matt</i>
024	12:30	A New Approximate Solution for Initial Development of Plastic Region in Elastic-Plastic Torsion of Sections with Constant Yield Stress Function <i>Majid Baniassadi, Sasan Asieaei, Masoud Safdari and Jalil Jamali</i>

Session-B1.3

Date: 30 December 2007

Venue: Post Graduate Lecture Room, Dept. of ME, EME Building, BUET

2:00 – 3:30 PM **Session B1.3** 6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
048	2:00	Thermal Design and Analysis of a Small Satellite Operating in Low Earth Orbit <i>F. Farhani, A. Anvari and K.S. Niaki</i>
195	2:15	Trigeneration for Sustainable Rural Industrialisation <i>Padma Vasudevan Sen, P.K. Sen and Phillip Davies</i>
200	2:30	Experimental Investigation and Simulation of Muffler Performance <i>A.K.M. Mohiuddin, Ataur Rahman and Yazid Bin Gazali</i>
018	2:45	Heat Transfer in Turbulent Flow Through Tube with Rod-Pin Inserts <i>M.A. K Chowdhuri, R.A. Hossain, M.A.R Sarkar and S.M. N Islam</i>
209	3:00	Design of Air Inlet Duct for Laboratory Scale Forced Draft Air-Cooled Heat Exchangers to Investigate the Aerodynamics of Plume <i>Md. Mizanur Rahman</i>
300	3:15	Energy and Thermodynamic Performance of Refrigerator Using Pure Hydrocarbon and Mixture of Hydrocarbons as Refrigerants <i>Sattar MA, Saidur R, Masjuki HH, and Mohiuddin A.K.M</i>

Session-B1.4

Date: 30 December 2007

Venue: Post Graduate Lecture Room, Dept. of ME, EME Building, BUET

3:40 – 5:00 PM **Session B1.4** 5 papers = 5 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
156	3:40	Carbon Nanotubes with Vacancy Defects and Their Mechanical Properties <i>Kazi Tunvir, Amkee Kim and Seung Hoon Nahm</i>
169	3:55	Propella: A Numerical Tool to Investigate Various Aspects of Podded Propulsors <i>Islam M, Liu P and Veitch B</i>
184	4:10	Experimental Investigation of Pile Group Under Lateral Cyclic Load in Soft Cohesive Soil <i>S. Basak</i>
027	4:25	Assessment of Multiaxial Fatigue Behaviour of Cylinder Head for a New Free Piston Linear Engine <i>M. M. Rahman, A. K. Ariffin, S. Abdullah, Rosli A. B. and M. S. M. Sani</i>
046	4:40	FEM Studies on Incremental Formed and Machined Satellite Structures <i>B. Hemati, F. Farhani and H. Emami</i>

Session-C1.1

Date: 30 December 2007

Venue: Library Room, Dept. of ME, EME Building, BUET

09:30 – 11:30 AM

Session C1.1

Keynote session at council building

Session-C1.2

Date: 30 December 2007

Venue: Library Room, Dept. of ME, EME Building, BUET

11:45 AM– 12:45 PM **Session C1.2** 4 papers = 4 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
181	11:45	Effects of Input Parameters on Weld Bead Geometry of Saw Process <i>A.Ghosh, S.Chattopadhyaya and P.K.Sarkar</i>
173	12:00	Marine Vehicle Accident Characteristics in Bangladesh: Study on Collision Type Accidents <i>Zobair Ibn Awal, M. Rafiqul Islam and Md. Mazharul Hoque</i>
310	12:15	A Non-Baseline Damage Identification Method Based on the Static Strain Response <i>N.H.M. Kamrujjaman Serker and Zhishen Wu</i>
190	12:30	On the Effect of Distributed Attached Masses on Exponential Rotating Disks <i>Shubhankar Bhowmick and Kashinath Saha</i>

Session-C1.3

Date: 30 December 2007

Venue: Library Room, Dept. of ME, EME Building, BUET

2:00 – 3:30 PM

Session C1.3

6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
061	2:00	Application of Response Surface Method for Modelling of Statistical Roughness Parameters on Electric Discharge Machining <i>B. C. Routara, P. Sahoo and A. Bandyopadhyay</i>
076	2:15	Application of Taguchi Method and Grey Relational Analysis in the Optimization of Coating Parameters for Surface Roughness in Electroless Ni-P Coating <i>Sujan Kumar Pal and Prasanta Sahoo</i>
105	2:30	Modelling of Parameters of Silicate Bonded CO ₂ Mould Using Artificial Neural Networks <i>M.Venkata Ramana, S.Sundarrajan, M.Komaraiah, V.Vasudeva rao and N.Chakradhar</i>
009	2:45	Influence of Substrate Surface Finish on Tribological Performance and Surface Topography of Hi-HVOF Sprayed WC-Cr-Ni Cermet Coating <i>A. Nakajima, D. M. Nuruzzaman and T. Mawatari</i>
043	3:00	Tool Life Prediction By Response Surface Methodology for End Milling Titanium Alloy Ti-6Al-4V Using Uncoated Carbide Inserts <i>Turnad L. Ginta, A.K.M. Nurul Amin, A.N.M. Karim, Agus G. Sutjipto</i>
096	3:15	Health and Safety Management System for a Manufacturing Company <i>A.B.M Ataul Haque, Muhammad Ahsanullah Khan and Mahiuddin Ahmed</i>

SESSION-C1.4

Date: 30 December 2007

Venue: Library Room, Dept. of ME, EME Building, BUET

3:40 – 5:00 PM **Session C1.4** 5 papers = 5 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
125	3:40	An Experimental Study of the Atomization of a Two-Phase Industrial Nozzle <i>M.A. Rahman, A. Amirfazli, T. Heidrick and B A. Fleck</i>
001	3:55	Selection of Optimum Flow Path (OFP) for AGVS in FMS Using 0-1 Integer Programming <i>Debamalya Banerjee and Dibyendu Barai</i>
004	4:10	Passive Suppression of Cavity-Induced Pressure Oscillation in an Axisymmetric Supersonic Flow <i>Md. Mahbulul Alam, Shigeru Matsuo and Toshiaki Setoguchi</i>
006	4:25	D.I Testing Challenge: Development of Ship / Rotorcraft Airwake Model by Simulation Method <i>U.K. Mandal, Surojit Ghosh and P.C. Mukherjee</i>
112	4:40	Effect of Level of Overexpansion in a Suddenly Expanded Flow <i>Shafiqur Rehman, Farrukh Sayeed and S. A. Khan</i>

SESSION-A2.1
(Keynote paper)

Date: 31 December 2007
Venue: Council Building

Session A2.1

09:30 – 10:30 AM

Keynote Paper:
Recent Advances on Tanker Vehicle Stability

Speakers:
Prof. Dr. Waiz Ahmed

Session-A2.2

Date: 31 December 2007

Venue: Council Building, BUET

11:00 AM – 12:30 PM **Session A2.2** 6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
025	11:00	Heat Transfer Analysis of Testing Bench Components of an Internal Combustion Engine <i>Salah Larb and Mohamed Tarek Attouchi</i>
047	11:15	A System for Measurement of Thermal Contact Resistance Under Vacuum Conditions <i>Foad Farhani and Feras Hakkak</i>
151	11:30	The Effect of Discharge Coefficient of Intake and Exhaust Valve for Direct Injection Engine <i>Abdul Rahim Ismail, Rosli Abu Bakar and Semin</i>
166	11:45	Cycle Time Reduction in Injection Moulding with Conformal Cooling Channels <i>A.B.M Saifullah and S.H. Masood</i>
189	12:00	An Investigation on Using EGR in Natural Gas SI Engines <i>Amr Ibrahim and Saiful Bari</i>
205	12:15	A ¼ Scale Hybrid Full-Track Air-Cushion Vehicle for Swamp Peat Terrain in Malaysia <i>A. Rahman, A.K.M Mohiuddin, A. Hossain, S. Nursyifa, A. Nora, N. Hidayah and J. Eshah</i>

Session-A2.3

Date: 31 December 2007

Venue: Council Building, BUET

2:00 – 3:30 PM **Session A2.3** 6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
075	2:00	Optical Diagnostics of a Turbulent Swirling Flame <i>A. Rahman, G. G. M. Stoffels and Th. H. van der Meer</i>
192	2:15	CFD Modelling of AF12 Product Filling Valve for Liquid Packaging Machines <i>M. F. Rahaman, S. Bari and D. Veale</i>
131	2:30	Lateral Stability of a Double Stacked Container Wagon Under Crosswinds <i>Firoz Alam and Simon Watkins</i>
510	2:45	Flow Over a Blunt Plate at Low Reynolds Number <i>Mohammad Mashud, Md. Ilis Inam and Akira Umemura</i>
045	3:00	Design and Construction of a Test Bed for Performance Evaluation of Fans <i>K.S. Niaki, F. Farhani, A. Anvari and M.A. Ardekani</i>
164	3:15	Design and Construction of H-Type Vertical Axis Wind Turbine <i>A. Hossain, A.K.M.P. Iqbal, A. Rahman, M. Arifin, N. H. Abdullah</i>

Session-A2.4

Date: 31 December 2007

Venue: Council Building, BUET

3:40 – 5:00 PM **Session A2.4** 5 papers = 5 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
210	3:40	Robust Anti-Windup PID Control of a Couple Industrial Tank System <i>Wahyudi, M. Fadhil and M. Shazri</i>
134	3:55	Gas Sector Master Plan and Strategy for Bangladesh <i>Md. Aminul Islam</i>
127	4:10	Smart Structural Health Monitoring Using Finger Print Diagram of Frequency Response <i>Arash Khajeh and Aghil Yousefi Koma</i>
036	4:25	The Study of the Backlash Effects on Geometry Factor of Spur Gears by the Finite Element Method by Using ANSYS <i>Alireza Dastan</i>
068	4:40	Effects of MAH-PP Treatment and Fiber Fractions on Properties of Wood Filled Polypropylene Composite <i>N. S. Islam and S. Mridha</i>

Session-B2.1

Date: 31 December 2007

Venue: Post Graduate Lecture Room, Dept. of ME, EME Building, BUET

9:30 – 10:30 AM

Session B2.1

Keynote session at council building

Session-B2.2

Date: 31 December 2007

Venue: Post Graduate Lecture Room, Dept. of ME, EME Building, BUET

11:00 – 12:30 PM **Session B2.2** 6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
022	11:00	Lift Analysis of an Aircraft Model With and Without Winglet <i>A. Hossain, P.R. Arora, A.A. Jaafar, A.K.M.P. Iqbal and M. Arifin</i>
082	11:15	Numerical Investigation of the Turbulence Characteristics of the Two-Phase Flow in an Industrial Nozzle <i>M.A. Rahman</i>
132	11:30	An Experimental Study of Cricket Ball Aerodynamics <i>Firoz Alam, Roger La Brooy, Simon Watkins and Aleksandar Subic</i>
124	11:45	A Review on Advanced Two-Phase Gas/Liquid Flow Measurement Techniques <i>M.A. Rahman, A. Amirfazli, T. Heidrick, B A. Fleck</i>
032	12:00	High Pressure Tribological Behavior of Vegetable Oils as Lubricant <i>Sobahan Mia, Shinichiro Hayashi and Nobuyoshi Ohno</i>
201	12:15	Pitcher or Clay Pot Irrigation for Water Conservation <i>Padma Vasudevan Sen, Alka Thapliyal, M.G. Dastidar and P.K. Sen</i>

Session-B2.3

Date: 31 December 2007

Venue: Post Graduate Lecture Room, Dept. of ME, EME Building, BUET

2:00 – 3:30 PM **Session B2.3** 6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
133	2:00	Review of Wellbore Instability Cases in Drilling Through Case Base Reasoning (CBR) Method <i>Aminul M. Islam, PEng., Pål Skalle, SPE</i>
340	2:15	Finite Element Modeling of RC Piles Strengthened with GFRP Composites <i>Purushotham Reddy, B Alagusundaramoorthy, P and Sundaravadivelu, R</i>
193	2:30	Large Displacement Free Vibration Analysis of Rotating Beam <i>Debabrata Das, Prasanta Sahoo and Kashi Nath Saha</i>
031	2:45	Feature Recognition of Rotational Parts Using Biquadratic Bezier Patches <i>J. Kumar and N. Roy</i>
053	3:00	Tensile Behavior of Tin Sintered Using Microwaves and Radiant Heating <i>M. E. Alam and M. Gupta</i>
071	3:15	Fretting Fatigue Behavior of Hard Thin-Film Deposited on Titanium Alloy <i>Rahman Md. Shamimur, Daisuke Yonekura and Ri-ichi Murakami</i>

Session-B2.4

Date: 31 December 2007

Venue: Post Graduate Lecture Room, Dept. of ME, EME Building, BUET

3:40 – 5:00 PM **Session B2.4** 5 papers = 5 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
177	3:40	Optimization of FRP Laminated Composites Using FEM and Parallel Genetic Algorithm <i>D Chakraborty, Rahul and A Dutta</i>
013	3:55	The Specific Surface Area (S) of Coarse Particles During the Compressibility Process <i>H. A. M. Al-Jewaree, A. F. Srrat and E. A. Basha</i>
186	4:10	Delta Handler Overall Effectiveness Improvement Through Waste Elimination <i>Vivien Wong Wei Ping and Shamsuddin Ahmed</i>
158	4:25	Organic-Inorganic Ternary Hybrids: Synthesis and Characterization <i>Shaikh Md. Mominul Alam and Tsutomu Takeichi</i>
029	4:40	Wire Electrical Discharge Machining for Microfabrication <i>M. Y. Ali, N. I. Rashidah and N. A. Azima</i>

Session-C2.1

Date: 31 December 2007

Venue: Library Room, Dept. of ME, EME Building, BUET

9:30 – 10:30 AM

Session C2.1

Keynote session at council building

Session-C2.2

Date: 31 December 2007

Venue: Library Room, Dept. of ME, EME Building, BUET

11:00 AM– 12:30 PM **Session C2.2** 6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
137	11:00	An Experimental Study of Effect of High-Pressure Coolant on Tool Wear, Tool Life and Roughness in Turning 16NnCr5 Steel By SnMg Insert <i>M. Kamruzzaman and N. R. Dhar</i>
138	11:15	Effect of Minimum Quantity Lubricant on Temperature, Chip and Cutting Force in Turning Medium Carbon Steel <i>S. M. A. Choudhury, N. R. Dhar and M. M. A. Bepari</i>
480	11:30	Analysis of Elastic Field in a Short Column of Orthotropic Composite by Finite Difference Technique <i>S K Deb Nath and A M Afsar</i>
460	11:45	Finite difference analysis of short SMA columns with tension- compression asymmetry <i>M. Ashiqur Rahman and M.A.K Chowdhuri</i>
290	12:00	Theoretical Stress Concentration Factors for Short Flat Tension Bars with Opposite U-Shaped Notches <i>M. A. Salam Akanda, S. Muntasir Mamun, Sujit Majumder and M. Kharshiduzzaman</i>
350	12:15	An Automated Mold Design System for Transfer Molding Process <i>M. R. Alam, A. B. M. A. Asad, M. Rahman and K. S. Lee</i>

Session-C2.3

Date: 31 December 2007

Venue: Library Room, Dept. of ME, EME Building, BUET

2:00 – 3:30 PM

Session C2.3

6 papers = 6 x 15min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
010	2:00	Natural Convection Flow along a Vertical Flat Plate with Conduction and Heat Generation Effect <i>A A Mamun, M A Azim, Z R Chowdhury and M A Maleque</i>
017	2:15	Cooling of Desktop Computer Using Heat Pipes <i>Tanvir Reza Tanim, Tanvir Hussain and Chowdhury Md. Feroz</i>
206	2:30	Mobility of the LGP-30 Wheeled Vehicle on Peat Terrain in Malaysia <i>A. Rahman, A.K.M Mohiuddin, A. Hossain, Noraini and Irwan</i>
091	2:45	Visualization of Transient Interaction Phenomena Between Droplets and Hot Walls around Leidenfrost Temperature for SUS304 <i>Uddin Mezbah, Sathoshi Yoshida, Sathoshi Someya and Okamoto Koji</i>
113	3:00	Heat Transfer Characteristics of Square Miniature Heat Pipes <i>Ahmed Imtiaz Uddin, A. S. M. Atiqul Islam and Chowdhury Md. Feroz</i>
187	3:15	Numerical Heat Transfer and Pressure Distribution Across the Heat Exchanger in a Cooling Tower <i>M. M. A. Sarker and M. R. Miah</i>

SESSION-C2.4

Date: 31 December 2007

Venue: Library Room, Dept. of ME, EME Building, BUET

3:40 – 5:00 PM **Session C2.4** 5 papers = 5 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
062	3:40	Thermal Resistance in Satellite Bolted Joints <i>Feras Hakkak and Foad Farhani</i>
088	3:55	Study Analysis of Effect of Different Parameters on Design Aspects of Cryogenic Wire Mesh Heat Exchanger <i>Ms. A. N. Prajapati and D. T. Oza</i>
191	4:10	Analysis of Steady Tests for POST-BT Heat Transfer in Vertical Tube Geometry in Abnormal Operational Transients of BWRs <i>M. S. Islam, Y. Sibamoto, Y. Maruyama, H. Nakamura and M.A. Zulquarnain</i>
194	4:25	A Small-Scale Multiple Effect Water Distillation System (MEWD) for Rural Sector <i>Padma Vasudevan Sen , P. K. Sen , S.K.Vyas and A. Mudgal</i>
280	4:40	Convective Heat Transfer of Nanofluids in Minichannel Under Laminar Flow Conditions <i>S. M. Sohel Murshed, Kai Choong Leong, Chun Yang and Nguyen Nam-Trung</i>

SESSION-A3.1

Date: 1 January 2008
Venue: Council Building

09:00 – 10:30 AM **Session A3.1** 6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
038	09:00	Prospect of Biodiesel Production from Jatropha Curcas, a Promising Non Edible Oil Seed in Bangladesh <i>Md. Nurun Nabi, Md. Shamim Akhter and K.M. Farzadul Islam</i>
103	09:15	Making Biodiesel and Performance Test of a Diesel Engine Using Diesel -Biodiesel Blends as a Fuel with Inlet Air Preheating Attachment <i>Mhia Md. Zaglul Shahadat and Md. Emdadul Hoque</i>
122	09:30	A Model Based Analysis of Temperature Behavior of a Manufacturing Cell <i>S. C. Banik and A. K. Mazumder</i>
175	09:45	Universal Velocity and Temperature Distributions in Forced Convection Through Square Duct with Asymmetric Heating <i>Khan Rezaul Karim, Md. Morad Hossain Mollah, M. A.T. Ali, M. A. R. Akhanda and Md. A. R. Sarkar</i>
202	10:00	Performance Study of Thermoloop: Effect of Evaporator Fill Ratio and Condenser Condition <i>Md. Ashiqur Rahman, Md. Ashraful Islam and Mohammad Alam</i>
211	10:15	Refurbishment of the Cooling System of the 3 MW TRIGA MK-II Research Reactor of Bangladesh <i>M. A. Zulquarnain, M. M. Haque, M. A. Salam, M. A. Sarder, M. A. M. Soner, A. Haque, M. M. Uddin, M. M. Rahman, M. Haque and T. Q. Choudhury</i>

Session-A3.2

Date: 1 January 2008

Venue: Council Building, BUET

11:00 AM – 12:30 PM **Session A3.2** 6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
063	11:00	An Experimental Investigation of Mechanical Properties of Locally Produced Plastic Wood <i>A.B.M.I. Islam, R. Faria and A.C. Mandal</i>
107	11:15	Development of a Mathematical Model for the Prediction of Chip Formation Instability and Its Verification by Fuzzy Logic with Genetic Algorithm <i>Anayet U. Patwari, A.K.M. Nurul Amin, Waleed Faris and M.H. Istihsaq</i>
129	11:30	Road Traffic Accident: a Leading Cause of the Global Burden of Public Health Injuries and Fatalities <i>Tahera Anjuman, Shahnewaz Hasanat-E-Rabbi, Chowdhury Kawsar Arefin Siddiqui and Md. Mazharul Hoque</i>
140	11:45	Tool Life Prediction in the Turning of Medium Carbon Steel Using High-Pressure Coolant by Factorial Design of Experiments <i>M.T. Ahmed and N. R. Dhar</i>
142	12:00	Chip Formation in Turning Medium Carbon Steel by Uncoated Carbide Inserts Under Dry, Wet and High-Pressure Coolant Conditions <i>N. R. Dhar, N. Sharmin, K. Paul, N. Nahar and D. Alam</i>
161	12:15	Decision Making on Load Connection from Different Substations of Specific Capacity on the Basis of Minimum Transmission Loss <i>Sikder Mainul Hasan and Md. Siful Islam</i>

Session-A3.3

Date: 1 January 2008

Venue: Council Building, BUET

2:00 – 3:30 PM

Session A3.3

6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
086	2:00	An Experimental Study of Tube-Side Heat Transfer <i>B Salam and M M K Bhuiya</i>
157	2:15	An Investigation on Increase of Volume of Lubricating Oil Used in Vehicles Around Dhaka City <i>Md. Ehsan, Md. Mahmudur Rahman and Md. Hassan Saadi</i>
176	2:30	Experimental Study on Convective Heat Transfer for Turbulent Flow in a Square Duct with Triangular, Trapezoidal, Saw Tooth Forward and Saw Tooth Backward Types Ribbed Wall <i>Khan Rezaul Karim, Md. Morad Hossain Mollah, M. A.T. Ali, M. A. R. Akhanda and Md. A. R. Sarkar</i>
203	2:45	Investigation of Thermal Performances of The Plate Type Heat Exchanger of the BAEC 3 MW TRIGA MK-II Research Reactor <i>M. S. Islam, M.M. Uddin, A. Haque, M. A. Salam, M. M. Haque and M.A. Zulquarnain</i>
380	3:00	An Analytical Study of Heat Transfer During Jet Impingement Quenching <i>M A Islam, M Monde and P Roy</i>
520	3:15	Dual Fuel Engine <i>Md. Anwar Hossain</i>

Session-A3.4

Date: 1 January 2008

Venue: Council Building, BUET

3:40 – 5:00 PM **Session A3.4** 5 papers = 5 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
400	3:40	Characteristics of Time Mean Velocity and Temperature Fields for Turbulent Flows in an Asymmetrically Heated Smooth Square Duct <i>AKM Abdul Hamid, M.A. Taher Ali and Adur Razzak Akhanda</i>
410	3:55	Forced Convective Heat Transfer and Friction Factor in an Asymmetrically Heated Smooth Square Duct <i>A. K. M. Adul Hamid, M. A. Taher Ali and Md. Abdur Razzaq Akhanda</i>
178	4:10	The Wind Energy Scenario in Coastal Region of Bangladesh <i>A.N. M. Mominul Islam Mukut , Md. Quamrul Islam and Muhammad Mahbubul Alam</i>
182	4:25	Turbulent Regime Friction Factors for U-Type Wavy Tubes <i>Kallol Das, Md. Morshed Alam and M. Mahbubur Razzaque</i>
070	4:40	Pioneering of a Prediction Method for Wind Speed and Validation for Local Site Records <i>K. A. Rahman and M. M. Alam</i>

Session-B3.1

Date: 1 January 2008

Venue: Post Graduate Lecture Room, Dept. of ME, EME Building, BUET

09:00 – 10:30 AM **Session B3.1** 6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
174	09:00	Development of a Mathematical Model for Analysis on Ship Collision Dynamics <i>Zobair Ibn Awal, M. Rafiqul Islam and M. Sadiqul Baree</i>
171	09:15	A Study of Electrical Properties of Bi ₂ Te ₃ Thin Films <i>M.R.Shah, M.Alibuddin and M. A.R.Sarkar</i>
196	09:30	Design and Fabrication of a 5 DOF Dexterous Robotic Arm for Industrial Tasks <i>M.T. Islam, M. A. Wazed and T. Mohammad</i>
270	09:45	Finite Difference Approach for Stress Analysis in a Composite Lamina Having a Circular Hole <i>Md. Tarekul Alam, M. A. Salam Akanda and Amalesh Chandra Mandal</i>
320	10:00	Multi Criteria Decision Making for Performance Evaluation in RMG Sector <i>Nusrat T. Chowdhury and Suvra Saha and N. R. Dhar</i>
360	10:15	Thermal Postbuckling of Slender Extensible Pinned-Fixed Bar Under Non-Uniform Heating <i>Sumon Saha and Abu Rayhan Md. Ali</i>

Session-B3.2

Date: 1 January 2008

Venue: Post Graduate Lecture Room, Dept. of ME, EME Building, BUET

11:00AM – 12:30 PM **Session B3.2** 6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
023	11:00	Recovery of Waste Heat From Engine Exhaust for Utilization in a Paddy Dryer <i>Md. Shamim Akhter, Md. Nurun Nabi and Zakia Afroz</i>
055	11:15	Effect of EGR and Cyclonic Separator on Emissions in DI Diesel Engines <i>Murari Mohon Roy and S. M. Najmul Hoque</i>
188	11:30	Radiation Effect on Natural Convection Laminar Flow along a Vertical Wavy Surface <i>Md. Mamun Molla, Azad Rahman and Md. Manirul Alam Sarker</i>
204	11:45	Determination of Temperature at Different Locations of the Quartz Vial Containing 40 gm of TeO ₂ During Its Irradiation in the DCT at 3MW of BAEC TRIGA MK-II Research Reactor <i>M. S. Islam, A. Haque, I.Kamal and M. Ali Zulquarnain</i>
212	12:00	Pressure Work and Viscous Dissipation Effects on MHD Natural Convection Flow along a Sphere <i>M. A. Alim, Md. M. Alam and Md. M. K. Chowdhury</i>
260	12:15	Running a Diesel Engine with Biodiesel <i>Md. Ehsan, Rahat Miagi Taposh and Md. Mazharul Islam</i>

Session-B3.3

Date: 1 January 2008

Venue: Post Graduate Lecture Room, Dept. of ME, EME Building, BUET

2:00 – 3:30 PM **Session B3.3** 6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
139	2:00	Role of High-Pressure Jet Cooling on Cutting Temperature in Turning Steel <i>A.K.M. Bashirul Khoda and N. R. Dhar</i>
141	2:15	Analysis of Influence of Machining Time and Tool Wear on Surface Roughness in Turning AISI-1060 Steel <i>N. R. Dhar, M.T. Ahmed and A.K.M. B. Khoda</i>
073	2:30	Problems of Sick Industries – Bangladesh Perspective <i>A.K.M Soleyman Hoque and S.K.Biswas</i>
207	2:45	Pareto-Optimal Solution of a Scheduling Problem on a Single Machine with Periodic Maintenance and Non-Pre-Emptive Jobs <i>Bhaba R. Sarker, Junfang Yu, Deniz Mungan, Mohammad A. A. Rahman and Sultana Parveen</i>
420	3:00	Fracture Criteria of Sharp V-Notched Specimens <i>Mohammad Wasim Akram and Abu Rayhan Md. Ali</i>
430	3:15	Investigation of Fiber Diameter and Interphase Effects on the Tensile Elastic Modulus of Carbon Nanotube Reinforced Composite <i>A. K. M. Masud, S. C. Chowdhury and Abdullah-Al-Khaled</i>

Session-B3.4

Date: 1 January 2008

Venue: Post Graduate Lecture Room, Dept. of ME, EME Building, BUET

3:40 – 5:00 PM **Session B3.4** 5 papers = 5 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
033	3:40	Heat Transfer in Turbulent Flow Through Tube with Perforated Twisted Tape Insert <i>J. U. Ahamed, M. A. Rashid Sarkar, M. H. Khan and M. A. Wazed</i>
056	3:55	Emission Control in DI Diesel Engine Using Aqueous Salt Solution <i>M. R. A Beg, M.R. I. Sarker, M. Rahman, S. M. N. Hoque</i>
197	4:10	Conjugate Effects of Viscous Dissipation and Pressure Work on MHD Natural Convection Flow along a Vertical Flat Plate with Heat Conduction <i>MD. M. Alam, M. A. Alim and MD. M. K. Chowdhury</i>
208	4:25	Mixed Convection in a Square Cavity with a Heat-Conducting Horizontal Circular Cylinder <i>M. M. Rahman, M. A. Alim and M. A. H. Mamun</i>
490	4:40	Numerical Analysis of Shock and Boundary Layer Control Over NACA0012 by Contour Bump, Surface Cooling and Heating <i>S. Bhattacharjee, M. Saifuddin Ahsan, M. Saha and M. Mamun</i>

Session-C3.1

Date: 1 January 2008

Venue: Library Room, Dept. of ME, EME Building, BUET

09:00 – 10:30 AM

Session C3.1

6 papers = 6 x 15 min

No paper presentation at this session here

Session-C3.2

Date: 1 January 2008

Venue: Library Room, Dept. of ME, EME Building, BUET

11:00 AM– 12:30 PM **Session C3.2** 6 papers = 6 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
030	11:00	Effect of a Diaphragm Rupture Process on Flow Characteristics in a Shock Tube Using Dried Cellophane <i>Shigeru Matsuo, Mamun Mohammad, Shinya Nakano, Toshiaki Setoguchi and Hey Dong Kim</i>
470	11:15	Effect of Velocity and Area Ratios on Mixing of Coaxial Free Jet <i>M. A. Taher Ali, Rafia Begum and Mohammad Nasim Hasan</i>
130	11:30	Magnetohydrodynamic (MHD) Laminar Free Convective Flow Across a Horizontal Circular Cylinder <i>Nur Hosain Md. Ariful Azim, Abdullah-Al-Mamun and Md. Mustafa Kamal Chowdhury</i>
136	11:45	Fabrication, Installation and Performance Test of a Model Type Vertical Shaft Wind Mill <i>M A Wazed, M. A. Islam, M.T. Islam and A. K. M. Sadrul Islam</i>
440	12:00	Aerodynamic Characteristics of Biplane Configurations Using NACA0024 Profile <i>G.M. Jahangir Alam, Mohammad Mamun, A. C. Mandal and Md Abdus Salam</i>
148	12:15	Characteristics of Air Properties and Variable Parameters for Turbulent Flow in an Asymmetrically Heated Smooth Square Duct <i>A.K.M. Abdul Hamid, M.A. Taher Ali and Abdur Razzaq Akhandha</i>

Session-C3.3

Date: 1 January 2008

Venue: Library Room, Dept. of ME, EME Building, BUET

2:00 – 3:30 PM

Session C3.3

6 papers = 6 x 15min

No paper presentation at this session here

SESSION-C3.4

Date: 1 January 2008

Venue: Library Room, Dept. of ME, EME Building, BUET

3:40 – 5:00 PM **Session C3.4** 5 papers = 5 x 15 min

<i>Paper Number</i>	<i>Time</i>	<i>Title and Author</i>
390	3:40	'Elastic-Plateau' Constitutive Relation of Flexible Polyurethane Foam Under Impact Loading <i>Munshi Mahbubul Basit and Seong Sik Cheon</i>
450	3:55	Effect of Thermal Stresses and Boundary Conditions on the Response of a Rectangular Elastic Body Made of FGM <i>M. Ashiqur Rahman and Nabid Salehin</i>
500	4:10	Selection of Efficient Cut Pattern in Simple Pocket Machining <i>Abdullahil Azeem</i>
128	4:25	Optimisation of Process Parameters of Silicate Bonded CO ₂ Moulding Process with Multiple Performance Characteristics Using Grey Relational Analysis <i>M.venkata Ramana, S.Sundarrajan, M.Komaraiah, V.Vasudeva rao and N.Chakradhar</i>