



# IMEOM 2017 Dhaka

1st International Conference on Industrial and Mechanical Engineering and Operations Management (IMEOM)

23-24 December, 2017 , Institution of Engineers Bangladesh (IEB), Dhaka, Bangladesh

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### Program Schedule – IMEOM 2017 Dhaka

Day One: 23 December, 2017 (Saturday)		
915 1700	<b>Registration</b>	Venue: ERC
915 1000	<b>Inaugural Ceremony</b>	Venue: ERC
Chief Guest:	Prof Dr A.M.M. Safiullah, Vice-Chancellor, Ahsanullah University of Science & Technology (AUST)	
Session Chair:	Prof Dr. Md. Nurul Absar Chowdhury (IUT) and Prof Dr. M Iqbal (SUST)	
1000 1045	<b>Keynote 1</b>	Venue: ERC
Keynote Speaker	Prof Dr. Abdur Rahim, UNB, Canada	
Title:	An Integrated Approach on Operations Management, Quality Management, Maintenance and Supply Chain Management	
Session Chair:	Prof Dr M Kutubuddin, KUET and Prof Dr. M Iqbal (SUST)	

1045	1100	<b>Tea Break</b>		
1100	1215	<b>Technical Session 1</b>		Venue: ERC
Session Chair:		Prof Dr. Md. Mosharraf Hossain, RUET and Prof Dr. M Sarwar Morshed (AUST)		
ID	Affiliation	Title	Author(s)	
2	KUET	Integration of Quality, Health & Safety, Environment and Social accountability under a single Management System	Subrata Talapatra, Md. Kutub Uddin	
3	DU, TEIW- Greece	Effect of variable viscosity and variable thermal conductivity of biomagnetic fluid flow and heat transfer over a stretching sheet in the presence of magnetic dipole	M.G. Murtaza, M. Ferdows, E.E. Tzirtzilakis	
5	TGTDCL	Organization innovation to develop Service systems of TGTDCL	Md. Shamsuzzoha	
22 A	KU	A Mathematical Model of Leukemia Treatment by Immunotherapy	Mst. Shanta Khatun, Md. Aminul Islam and Md. Haider Ali Biswas	
1100	1215	<b>Technical Session 2</b>		Venue: DC
Session Chair:		Prof Dr. Shamsuddin Ahmed, Sonargaon Uni and Prof Dr. A M M Mukaddes, SUST		
ID	Affiliation	Title	Author(s)	
15	SUST	A case study on line balancing techniques for apparel sewing line.	Chowdhury Jony Moin, Prof. Dr. Engr. Mohammad Iqbal, Prof. Dr. Mohammad Ali, Prof. Dr. Lal Mohan Baral	
13	DU	Introduction of HR policy in Automobile sector in Bangladesh	Mohammed Shahed Hossain, Rubaya Jafrin Hoque	
16 A	SUST	Stress Analysis of Steel Frame Chair and a Comparative study for Various Loading Conditions	Abul Mukid Mohammad Mukaddes, Md. Minhajul Islam and Md. Rakibul Hasan	
6 A	KUET	Digital Marketing Model for Budget Allocation Using Genetic Algorithm	Md. Mahbubur Rahman, Md. Kutub Uddin	
1215 - 1245	<b>Invited Talk 1</b>		Venue: ERC	
Invited Speaker		Prof Dr. Md. Haider Ali Biswas, KU		
Title:		Optimization and Optimal Control Technique: Applications to Modeling Healthcare Systems		
Session Chair:		Prof Syed Fakhru Hassan, SEU		
1215 - 1245	<b>Invited Talk 2</b>		Venue: DC	
Invited Speaker		Dr. A.R.M. Harunur Rashid (IUT)		
Title:		Sustainable Innovation in Research and Education		
Session Chair:		Dr. Faruque A. Haolader, IUT		
1300	1345	<b>Lunch and Prayer Break</b>		Venue: ERC Cafeteria



1000	1045	<b>Keynote 4</b>		Venue: ERC
Keynote Speaker		Dr Mohammad Anwar Rahman, CCSU, USA		
Title:		Trend of the Future Logistics and Challenges to Improve Human Skills		
Session Chair:		Prof Dr. Md. Kamruzzaman, DUET and Dr. A.S.M. Mojahidul Hoque, JUST		
1045	1100	<b>Tea Break</b>		
1100	1145	<b>Keynote 5</b>		Venue: ERC
Keynote Speaker		Dr Ahsanul Karim, Ford Motor, USA		
Title:		Ford's Product Development System for Cost Reduction		
Session Chair:		Prof Dr Nurul Amin, AUST and Prof Dr. M Sarwar Morshed (AUST)		
1145	1245	<b>Technical Session 3</b>		Venue: ERC
Session Chair:		Prof. Dr. Md. Zahid Hossain, IUT and Dr. A.S.M. Mojahidul Hoque, JUST		
	ID	Affiliation	Title	Author(s)
12		KUET,ZHUST, BCSIR	Effect of ZSM-5 catalyst/tyre ratio on product of Catalytic Pyrolysis of tyre wastes	Adnan Abedeen,Md. Shameem Hossain, Md. Rezaul Karim, Md. Moniruzzaman and Md. Juwel Hosen
23		BUET	A Multi-objective Mathematical Optimization Approach to a Three-echelon Green Supply Chain Management Subject to Disruption at Plant	Md. Ahnaf Sadat,Md. Doulotuzzaman Xames, Abdullahil Azeem
4 A		AUST	Investigation of Bentonite Clay: An Alternative Auxiliary for Combined Scouring and Bleaching of Cotton Knitted Fabric	Muksit Ahamed Chowdhury and Md. Koushik Uddin
30		SUST	Technical and Economic Viability of A Proposed Solar Street Lighting System for SUST	Md. Rabiul Hasan, Muhammad M. Hasan, Ranjit Biswas, Md. Masum Parvej
31		RUET	Determination of Different Body Dimensions from Stature in Bangladeshi Female	Md. Asadujjaman, Md Mashum Billal, Md. Rasel Sarkar and Md. Golam Rabbani
1145	1245	<b>Technical Session 4</b>		Venue: DC
Session Chair:		Prof Dr. Sultana Parveen. BUET and Dr. A.R.M. Harunur Rashid (IUT)		
	ID	Affiliation	Title	Author(s)
24		BUET	Bleaching Process Parameter Stabilization Using Artificial Neural Network in a CCNO Refinery Plant	Fariha Kabir Torsha and Sultana Parveen

9	BUET	PREDICTION OF WELD QUALITY BY ARTIFICIAL NEURAL NETWORK MODELING OF PARAMETERS OF MIG WELDING PROCESS	Israt Zarin Era and Nikhil Ranjan Dhar
25	IUT	Design of Accessible Wheelchair Ramp for Public Transport	Syed Tasnim Ahmed, Sakib Ul Islam, A.R.M. Harunur Rashid
26	IUT	Optimization of logistic concepts in Bangladesh by using Automated Guided Vehicle (AGV) to enhance efficiency, productivity and security in Warehouse Management System (WMS)	Md. Nafis Hossain, Md. Mahfuzul Hoq, Mezba Uddin Shaon, A.R.M. Harunur Rashid
32	MIST	Sustainable Manufacturing : Road Forward to Green	Tasnim Ahmed Tahasin, Rumana Jahan, Jakir Hassan and Israt Humayra
1300	1345	<b>Lunch and Prayer Break</b>	Venue: ERC Cafeteria
1345	1500	<b>Technical Session 5</b>	Venue: ERC
Session Chair:		Prof Dr. Md. Haider Ali Biswas, KU and Prof Dr. A M M Mukaddes, SUST	
ID	Affiliation	Title	Author(s)
28	UMP-Malaysia	Minimizing Infection Risks of Hospitals	Yasaman Parsia, Puteri Fadzline Muhamad Tamyez, Shahryar Sorooshian
17 A	KU	Mathematical Analysis and Control of Drug Addiction and its Harmful Consequences	Md. Azmir Ibne Islam , Md. Haider Ali Biswas
21 A	KU	Control of Infectious Diseases through Media Awareness : A Mathematical Strategy	Md. Haider Ali Biswas , Sharmin Sultana Shanta
E1	KU	Free Convection Flow of Nanofluid through an Exponentially Accelerated Vertical Plate with Variable Viscosity in the Presence of Radiation and Chemical Reaction	Rajib Biswas, Sarder Firoz Ahmmed
6 A	DU	Effects of cross- diffusion and radiation on magneto free forced convective stagnation flow from a vertical surface in porous media with Gyrotactic Microorganisms.	Nayema Islam Nima
1345	1500	<b>Technical Session 6</b>	Venue: DC
Session Chair:		Dr. A.S.M. Mojahidul Hoque, JUST and Dr. A.R.M. Harunur Rashid (IUT)	
ID	Affiliation	Title	Author(s)
29	IUT	Design Optimizations of Vortex Tube to Ensure Higher Temperature Difference for Cooling and Heating	Arik Inkiyad Abeer, Md. Misbah Uddin, Mohammad Intishar Nur, A.R.M. Harunur Rashid

27	IUT	Application of modern Supply Chain Management Tools to the Power Plants of Bangladesh: A Case Study	Md. Moinul Hossain, Asif Mahmud, Md. Nafis Hossain, A.R.M. Harunur Rashid
14 NR	DU, TUAT Japan	Feasibility Study of Solar Energy in Bangladesh for Sustainable Development	A.K.M. Nazrul Islam, Rubaya Jafrin Hoque
8 A	KU	Optimization Analysis in Cloud Computing	Samen Bairaghi, Golam Ittihad Udoy and Munnujahan Ara
33	IUT	Utilization of Highway Impact Wind Energy Produced By Passing Vehicles and Techno-Economic Analysis	Faruq Bashir Iron-Baba, Dodou Drammeh, M.D Asaduzzaman Bappi and Dr. A.R.M Harunur Rashid
1500 1600		<b>Technical Session 7</b>	Venue: ERC
Session Chair:		Prof. Dr. Lal Mohan Baral, AUST and Dr Ahsanul Karim, Ford Motor, USA	
ID	Affiliation	Title	Author(s)
E2	AUST	Multi-Objective Optimization for Multi-Product Multi-Period Four Echelon Supply Chain Problems Under Uncertainty	Md Mashum Billal and Md. Mosharraf Hossain
E4	AUST	Prioritizing Suppliers by using AHP tool for Managing Risk Factors in Logistics (A case study: Epyllion Group)	Israt Sharmin, Umme Nafisa, Amit Das, Tasminur Mannan, Mohammad Morshed
E5	AUST	Distribution Network Design and Optimization of a FMCG MNC of Bangladesh	Md. Ashfakur Rahman, Mohammad Morshed
E3	SUST	Findings of Different Hazards Faced by the Workers of Selected Rice Mills in Sylhet City, Bangladesh	M. Iqbal
1500 1600		<b>Technical Session 8</b>	Venue: DC
Session Chair:		Dr Mohammad Anwar Rahman, CCSU, USA and Dr. A.R.M. Harunur Rashid (IUT)	
ID	Affiliation	Title	Author(s)
E6	AUST	Industrial Safety Engineering: A Sustainable Solution For Oil, Gas And Refinery Industries	Md. Mahfujul Haq, Sudipto Pal, Mohammad Morshed
E7	AUST	Measuring The Supply Chain Performance Through Kpi Identification And Evaluation	Rezwanul Islam, Ahmed Zaman, Antara Biswas, Mohammad Morshed, Shyamal Biswas
E8	AUST	Management of The Logistics System of UBER in Bangladesh	Khayyam Mahmud, Rahat Mahmud
1600 1615		<b>Tea Break</b>	
1615 1700		<b>Closing Ceremony</b>	Venue: ERC
Chief Guest:		Prof Dr.Md. Nurul Absar Chowdhury (IUT)	
Chair:		Prof Dr. M Iqbal (SUST)	

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Notes:::

ERC = Engineers Recreation Centre(ERC)'s Conference Room, 2<sup>nd</sup> Floor, IEB Headquarters new building, Ramna, Dhaka 1000

DC = Dhaka Centre's Meeting Room, 1<sup>st</sup> Floor, IEB Headquarters new building, Ramna, Dhaka 1000

ERC Cafeteria = Just Beside ERC Conference Room, 2<sup>nd</sup> Floor, IEB Headquarters new building, Ramna, Dhaka 1000

Prayer Room = near the entrance at Ground Floor, IEB Headquarters new building, Ramna, Dhaka 1000

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