

**Date: 27-01-2018**

## Inaugural Session

09:00 – 10:10	Conference registration	Zahir Raihan Auditorium
10:10 – 10:20	Welcome address	Prof. Dr. A K Majumder, Conference Chair
10:20 – 10:30	Introduction of foreign guests	Prof. Dr. A A Mamun, Chair, Scientific Program Committee
10:30 – 10:35	Speech of special guest	Prof. Sheik Md. Monzurul Huq, Treasurer, JU
10:35 – 10:40	Speech of special guest	Prof. Dr. Amir Hossain, Pro-Vice Chancellor, JU
10:40 – 10:45	Speech of special guest	Prof. Dr. Md. Abul Hossain, Pro-Vice Chancellor, JU
10:45 – 11:55	Speech of chief guest	Prof. Dr. Farzana Islam, Vice Chancellor, JU
10:55 – 11:00	Vote of thanks	Prof. Dr. Md. Sharif Uddin, Conference Secretary

## Plenary Talk

<b>Time</b>	<b>Chair</b> : Prof. Dr. Shariff Enamul Kabir <b>Co-Chair</b> : Prof. Dr. Md. Nurul Alam	
11:30 – 12:15	Dr. Fatema Tanjia (France)	<b>Topic:</b> An introduction to nanoplasmonics and plasmonic resonance in C <sub>60</sub> fullerenes using a quantum hydrodynamic model
12:15 – 13:00	Dr. Uma Shaha (USA)	<b>Topic:</b> Genetically Engineered Mouse Models: Application to Human Disease and Basic Research
<b>13:00 – 14:00</b>	<b>Lunch Break</b>	

## Invited Talk

<b>Parallel Session -I (Phy+CSE)</b> <b>(Room: Stat # 103, Math-Stat Building)</b>		
<b>Time</b>	<b>Chair</b> : Prof. Dr. Md. Abul Hossain <b>Co-Chair</b> : Prof. Dr. Farid Ahmad	
14:00 – 14:30	1. Prof. S Nakib (BD)	<b>Topic:</b> Disorder induced low-energy quasiparticle states in hole doped cuprates: relevance to magnetic effect and T <sub>c</sub> degradation
14:30 – 15:00	2. Prof. M. Maksudur Rahman (Japan)	<b>Topic:</b> Feature of a Silicon Quantum Dot Superlattice for High Efficiency Solar Cell
<b>15:00 – 15:30</b>	<b>Tea Break</b>	
	<b>Chair</b> : Prof. Dr. Jugal Krishna Das <b>Co-Chair</b> : Dr. Md. Abdul Mannan	
15:30 – 16:00	3. Prof. A. K. M. Fazlul Haque (DIU, IEEE)	<b>Topic:</b> Global scenario of fluoride contamination in groundwater with special focus on Bangladesh
16:00 – 16:30	4. Prof. M. Jahidur Rahman (BD)	<b>Topic:</b> Future of computing in the field of physical sciences

<b>Parallel Session –II (Math+Stat+Phy)</b> <b>(Room: Stat # 115, Math-Stat Building)</b>	
<b>Time</b>	<b>Chair</b> : Prof. Dr. Syed Sabbir Ahmed <b>Co-Chair</b> : Dr. Mohammad Osman Gani

14:00 – 14:30	1. Prof. Dr. Laek Sazzad Andallah	<b>Topic:</b> Discrete Model Boltzmann Equation Based on a Loosely Coupled Hexagonal grid in Two Dimensional Velocity Space
14:30 – 15:00	2. Prof. A. Tomoeda (Japan, Math.)	<b>Topic:</b> Jamology
<b>15:00 – 15:30</b>	<b>Tea Break</b>	
<b>Time</b>	<b>Chair</b> : Prof. Dr. Kanchan Chowdhury <b>Co-Chair</b> : Dr. Mahtab Uddin Ahmmed	
15:30 –16:00	3. Dr. Md. Kamal Hossain	<b>Topic:</b> A DFT study of the hexagonal boron cluster as an anode material for Lithium ion ( $Li_n^+$ ) storage
16:00 –16:30	4. Dr. M. Nashir Uddin	<b>Topic:</b> Development of method for rapid quantification of glucose, fructose, and sucrose in mango juice by Chemometric techniques in De-noised FTIR spectroscopic data

<b>Parallel Session –III (Chem+Geo+CSE)</b> <b>(Room: Stat # 117, Math-Stat Building)</b>		
<b>Time</b>	<b>Chair</b> : Prof. Dr. Delowar Hossain <b>Co-Chair:</b> Dr. Md. Ezharul Islam	
14:00 –14:30	1. Prof. A. T. M. Shakhwat Hossain (BD, Geology)	<b>Topic:</b> Geosciences for Society and Sustainable Development
14:30 –15:00	2. Prof. Md. Imdadul Islam (CSE)	<b>Topic:</b> Evolution of Mobile Cellular Communications
<b>15:00 – 15:30</b>	<b>Tea Break</b>	
	<b>Chair</b> : Prof. Dr. Elias Molla <b>Co-Chair:</b> Dr. Md. Enamul Haque	
15:30 –16:00	3. Prof. N Amin (Malaysia, Chem.)	<b>Topic:</b> Inorganic Chemistry
16:00 – 16:15	<b>Paper ID# 81109</b> <b>Title:</b> Application of Triangular Fuzzy Soft Sets in Medical Diagnosis <b>Authors:</b> Nirmal Kanti Mitra, Md. Yasin Ali, Kanak Ray Chowdhury, and Abeda Sultana	
16:15 – 16:30	<b>Paper ID# 81134</b> <b>Title:</b> Developing Stochastic Linear Programming Model to Optimize Agricultural Production under Uncertain Flood Influence <b>Authors:</b> Sayedul Anam, Mahbub Parvez, Aminur Rahman Khan, and Md. Sharif Uddin	
16:30 – 16:45	<b>Paper ID# 81456</b> <b>Topic:</b> Novel Triosmium Clusters Stabilized by Benzoxazol-2-thiolatoligand: Synthesis, X-ray Crystal Structure and Thermal Isomerization <b>Author:</b> Shafikul Islam, Md. Julhas A. Miah, Md. Manzurul Karim, Mohammad R. Karim, and Tasneem A. Siddiquee	

**Parallel Session –IV (Math+Geo)**  
**(Room: Stat # 116, Math-Stat Building)**

<b>Time</b>	<b>Chair</b> : Dr. Md. Mahfuzul Haque <b>Co-Chair</b> : Dr. H. M. Sayem
14:00 – 14:15	<b>Paper ID# 81436</b> <b>Title:</b> (3+1)-dimensional cylindrical Korteweg-de Vries equation for ion-acoustic waves <b>Author:</b> Dr. Shalauddin
14:15 – 14:30	<b>Paper ID# 81188</b> <b>Title:</b> Effect of Thickness Variation on Tin Oxide Based Transparent Conducting Oxide Layer <b>Author(s):</b> Rimon Chandra Debnath, Md. Kamal Hossain, Mst. Shamima Khanom, Munira Sultana, Rummana Matin, M. S. Bashar, Farid Ahmed, and Md. Abul Hossain
14:30 – 15:00	<b>Paper ID# 81222</b> <b>Title:</b> A semi-automated method for coastline extraction from satellite imagery: study from the coastal areas of Bangladesh <b>Authors:</b> Md. Mahfuzul Haque, and Xuan Zhu
	<b>Paper ID# 81223</b> <b>Title:</b> Petrogenetic Characteristics of Detrital Fe-Ti Oxide Minerals of Brahmaputra River Sediments in Bangladesh <b>Authors:</b> A.S.M. Mehedi Hasan, Ismail Hossain, and Md. Aminur Rahman
	<b>Paper ID# 81224</b> <b>Title:</b> Crystalline basement rocks from drillhole GDH-62 from Dighipara, Dinajpur, north-west Bangladesh: Petrologic and geochemical constraints <b>Authors:</b> Hasibul Zahan, Md. Sakawat Hossain, Md. Sakaouth Hossain, and Md. Aminur Rahman
<b>15:00 – 15:30</b>	<b>Tea Break</b>
	<b>Chair</b> : Prof. Dr. Md. Sharif Hossain Khan <b>Co-Chair:</b> Prof. Dr. S M Mahbubul Ameen
15:30 –16:00	<b>Paper ID# 81226</b> <b>Title:</b> Deformation characteristics of the Chittagong Tripura Fold Belt - An insight from the geometrical analysis of folded structures <b>Authors:</b> Md. Sakawat Hossain, Md. Maksudul Islam, Oniza Islam, Md. Sharif Hossain Khan, and Khalil R. Chowdhury
	<b>Paper ID# 81227</b> <b>Title:</b> Petrology and Geochemistry of the Crystalline Basement rocks from Barapukuria Coal Basin, Dinajpur, Bangladesh <b>Authors:</b> Md. Shams Shahriar, S. M. Mahbubul Ameen, Md. Sakawat Hossain, Md. Sakaouth Hossain, Mohammad Nazim Zaman, and Md. Shah Alam
16:00 –16:30	<b>Paper ID# 81228</b> <b>Title:</b> Reservoir Characterization using Well Logs and 2D Seismic Data of the Sangu Gas Field, Offshore Bangladesh <b>Authors:</b> Md. Upal Shahriar, Delwar Hossain, and Md. Sakawat Hossain
	<b>Paper ID# 81229</b> <b>Title:</b> Characterization of pores in the lower Cambrian organic rich shales from the mid-upper Yangtze Block, South China <b>Authors:</b> Rumana Yeasmin, and Daizhao Chen

**Date: 28-01-2018**

**Plenary Talk**

<b>Time</b>	<b>Chair</b> : Prof. Abdul Mannan Chowdhury <b>Co-Chair</b> : Prof. Laek Sazzad Andallah
10:00 – 10:30	Dr. Edwin Bowles (UK) <b>Topic:</b> Energy: Global and National Perspective
10:30 – 11:00	Prof. Shariff Enamul Kabir (BD) <b>Topic:</b> The untapped chemistry of saccharin (sacH) and thiosaccharin (s-sacH) with $M_3(CO)_{10}L_2$ carbonyls (M = Os, Ru, L = dppm, MeCN)-synthesis, structure and reactivity
11:00 – 11:45	Prof. Md. Abdul Hoque (BD) <b>Topic:</b> Mathematics as a Foundation of Research in Various Disciplines
<b>11:45 – 12:00</b>	<b>Tea Break</b>

**Technical Session**

<b>Parallel Session -I (Phy+CSE)</b> <b>(Room: Stat # 103, Math-Stat Building )</b>	
<b>Time</b>	<b>Chair</b> : Prof. Dr. Mohammad Hanif Ali <b>Co-Chair</b> : Prof. Dr. Abu Sayed Md. Mostafizur Rahaman
<b>Paper ID, Title and Authors</b>	
12:00 – 12:15	<b>Paper ID# 81172</b> <b>Title:</b> Dust-Acoustic Shock Structures in a Self-Gravitating Dusty plasmas with Trapped Ions and Dust of Opposite Polarity <b>Authors:</b> Ismita Tasnim, M. G. M. Anowar, S. Rawson, and A A Mamun
12:15 – 12:30	<b>Paper ID# 81171</b> <b>Title:</b> Applications of Artificial Neural Network (ANN) & Support vector machines (SVMs) in Predicting Stock Market Returns: A case study on Dhaka Stock Exchange <b>Authors:</b> Md. Siddikur Rahman, and H.M. Simon
12:30 – 12:45	<b>Paper ID# 81155</b> <b>Title:</b> Synthesis of vanadium oxide nanoparticles by pulsed plasma in liquid method <b>Authors:</b> Jahirul Islam Khandaker, Zhazgul Kelgenbaeva, Michio Koinuma, Akira Yoshiasa, and Tsutomu Mashimo
12:45 – 13:00	<b>Paper ID# 81174</b> <b>Title:</b> Dust-acoustic solitary waves and their multi-dimensional instabilities in dusty plasmas with dust of opposite polarity and trapped ions <b>Authors:</b> Ismita Tasnim, M. G. M. Anowar, M. M. Masud, and A A Mamun
<b>13:00 – 14:00</b>	<b>Lunch Break</b>
<b>Paper ID, Title and Authors</b>	
14:00 – 14:15	<b>Paper ID# 81300</b> <b>Title:</b> Pre-monsoon Flash Flood Forecasting over Northeastern Haor Region of Bangladesh using NWP and CPT <b>Authors:</b> Md. Shameem Hassan Bhuiyan, Md. Abdul Mannan Chowdhury, and Dewan Abdul Quadir
14:15 – 14:30	<b>Paper ID# 81164</b> <b>Title:</b> Positron-Acoustic Solitary Structures in Plasmas with Nonextensive $q$ -Distributed Electrons and Positrons <b>Authors:</b> Lutfun Nahar, and A. A. Mamun

14:30 – 14:45	<b>Paper ID# 81166</b> <b>Title:</b> Dust-Ion-Acoustic Solitary and Shock Waves in Arbitrarily Charged Dusty Plasmas with Two-Temperature Superthermal Electrons <b>Authors:</b> Md. Sahadat Alam, L. Nahar, M. Salahuddin, and A. A. Mamun
14:45 – 15:00	<b>Paper ID# 81177</b> <b>Title:</b> Implementation of an Arduino based low cost secured Telemedicine system for Bangladesh <b>Authors:</b> Toufik Emon, Uzzal Kumar Prodhan, Muhammad Zahidur Rahman, and Israt Jahan
<b>15:00 – 15:30</b>	<b>Tea Break</b>
	<b>Chair</b> : Prof. Dr. M. Salahuddin <b>Co-Chair</b> : Dr. Md. Shafiqul Islam
	<b>Paper ID, Title and Authors</b>
15:30 – 15:45	<b>Paper ID# 81176</b> <b>Title:</b> Semi-analytical ring-soliton solution of cylindrical Korteweg de Vries equation <b>Authors:</b> Abdul Mannan, Renato Fedele, and Sergio De Nicola
15:45 – 16:00	<b>Paper ID# 81179</b> <b>Title:</b> DIA Waves in Dusty Plasmas with bi-Maxwellian Electrons <b>Authors:</b> Md. Mehdi Masud, and A. A. Mamun
16:00–16:15	<b>Paper ID# 81196</b> <b>Title:</b> Structural and Magnetic Properties of Gd and Cr co-Doped BiFeO <sub>3</sub> Nanomaterials <b>Authors:</b> Mohammad Nazmul Hossain, M. A. Matin, M. A. Hakim, Manifa Noor, M. A. Al Mamun, M. M. Rhaman, F. A. Mozahid, and M. F. Islam
16:15 – 16:30	<b>Paper ID# 81230</b> <b>Title:</b> Markovian Decision Process Analysis on Traffic Congestion at Dhaka City <b>Authors:</b> Md. Abdur Rahman, and Md. Abdul Hoque

<b>Parallel Session –II (Math+Stat)</b> <b>(Room: Stat # 115, Math-Stat Building)</b>	
<b>Time</b>	<b>Chair</b> : Prof. Dr. M. Mazibar Rahman <b>Co-Chair</b> : Prof. Dr. Alamgir Kabir
<b>11:30 – 12:00</b>	<b>Tea Break</b>
	<b>Paper ID, Title and Authors</b>
12:00 – 12:15	<b>Paper ID# 81124</b> <b>Title:</b> Fitting Zero-Inflated Poission (ZIP) Model for Torrential Rainfall Data <b>Authors:</b> Azizur Rahman, Prashanjit Chandra Paul, Piash Paul, and Mariam Akter
12:15 – 12:30	<b>Paper ID# 81136</b> <b>Title:</b> Application of Probability Distributions for Wind Speed Modeling <b>Author:</b> Md. Moyazzem Hossain
12:30 – 12:45	<b>Paper ID# 81142</b> <b>Title:</b> Performance Analysis of Various Statistical Classification Techniques Using Different Data Mining Tools for Data Classification <b>Authors:</b> Md. Siddikur Rahman, and Md. Mamunur Rashid
12:45 – 13:00	<b>Paper ID# 81193</b> <b>Title:</b> Growth and Instability in Area and Production of Rape and Mustard oil seed in Bangladesh <b>Authors:</b> M. Taj Uddin, and Ruhul Amin
<b>13:00 – 14:00</b>	<b>Lunch Break</b>
	<b>Chair</b> : Prof. Dr. Mohd. Muzibur Rahman <b>Co-Chair</b> : Prof. Dr. Muhammad Nazrul Islam

	<b>Paper ID, Title and Authors</b>
14:00 – 14:15	<b>Paper ID# 81147</b> <b>Title:</b> Pattern Recognition of Rainfall in Bangladesh Using Wavelet Transform <b>Authors:</b> Abdur Rahman, Ataul Mustufa Anik, and Zaki Farhana
14:15 – 14:30	<b>Paper ID# 81151</b> <b>Title:</b> Application of Support Vector Machine in Stock Market Forecasting Comparing with the ANN and ARIMA Models <b>Authors:</b> Faruq Abdulla, Md. Moyazzem Hossian, and Sharmin Akter Sumy
14:30 – 14:45	<b>Paper ID# 81156</b> <b>Title:</b> Elderly Health Status in Bangladesh: A Cross Sectional Stud <b>Authors:</b> Abdur Rahman, Mohammad Romel Bhuiayan, and Kanis Fatama Ferdushi
14:45 – 15:00	<b>Paper ID# 81450</b> <b>Title:</b> A study on prediction of rainfall using data mining techniques: An evidence of Chittagong district <b>Authors:</b> Sayedul Nahida Afroz, and Muhammad Mahabub Rahaman manik
<b>15:00 – 15:30</b>	<b>Tea Break</b>
	<b>Chair</b> : Prof. Dr. Syeda Shahanara Huq <b>Co-Chair</b> : Md. Moyazzem Hossain
	<b>Paper ID, Title and Authors</b>
15:30 – 15:45	<b>Paper ID# 81161</b> <b>Title:</b> Modified BEKK Model and its Application to Selected Financial Time Series of Bangladesh <b>Authors:</b> Lakshmi Rani Kundu, and Ajit Kumar Majumder
15:45 – 16:00	<b>Paper ID# 81171</b> <b>Title:</b> Applications of Artificial Neural Network (ANN) & Support vector machines (SVMs) in Predicting Stock Market Returns: A case study on Dhaka Stock Exchange <b>Authors:</b> Md. Siddikur Rahman, and H. M. Simon
16:00 – 16:15	<b>Paper ID# 81232</b> <b>Title:</b> Identifying the Key Determinants of Women Empowerment: A Perception Survey on Academicians in Tertiary Education <b>Authors:</b> Most. Tajmary Mahfuz, Mr. Rafi Al Mahmud, and Ms. Subhenur Latif
16:15 – 16:30	<b>Paper ID# 81451</b> <b>Title:</b> Neural Based Seasonal Adjustment in Time Series: A Comparative Study <b>Authors:</b> M. Atikur Rahman, and Ajit Kumar Majumder

	<b>Parallel Session –III (Chem+Geo+Env) (Room: Stat # 117, Math-Stat Building)</b>
<b>Time</b>	<b>Chair</b> : Prof. Dr. Shafi M. Tareq <b>Co-Chair</b> : Prof. A. H. M. Sadaat
	<b>Paper ID, Title and Authors</b>
12:00 – 12:15	<b>Paper ID# 81112</b> <b>Title:</b> Optimal control of a Threatened Wildebeest-Tiger the prey-predator System in Sundarban Ecosystem <b>Authors:</b> Nazmul Hasan, Md. Hyder Ali Biswas, and Md. Sharif Uddin
12:15 – 12:30	<b>Paper ID# 81126</b> <b>Title:</b> Optimal Control of Greenhouse Horticulture <b>Authors:</b> Shohel Ahmed, and Adul Alim
12:30 – 12:45	<b>Paper ID# 81185</b> <b>Title:</b> Mapping of landslide prone area and its specific causes: a case study of Darjeeling, West Bengal <b>Authors:</b> Javed Iqbal, and Syed Ahmad Ali

12:45 – 13:00	<b>Paper ID# 81145</b> <b>Title:</b> Study of an eco-epidemiological system with Holling type-II functional response <b>Author:</b> Harekrishna Das
<b>13:00 –14:00</b>	<b>Lunch Break</b>
	<b>Chair</b> : Prof. Dr. Md. Khabir Uddin <b>Co-Chair</b> : Dr. A. K. M. Rashidul Alam
	<b>Paper ID, Title and Authors</b>
14:00 – 14:15	<b>Paper ID# 81195</b> <b>Title:</b> Cost Effective Treatment of Tannery Waste Water <b>Authors:</b> Mohammad Nazmul Hossain, Anamika Roy, M. A. Matin, Ashiqur Rahman, Didarul Islam, and M. F. Islam
14:15 – 14:30	<b>Paper ID# 81122</b> <b>Title:</b> Optimal Control of Waste Water Cleaning Process <b>Authors:</b> Shohel Ahmed, and Sumaiya Rahman
14:30 – 14:45	<b>Paper ID# 81233</b> <b>Title:</b> Evaluation of chromium uptake efficiency using <i>Spirulina platensis</i> Geiter and <i>Chlorella vulgaris</i> Beijerinck in tannery industrial waste water <b>Authors:</b> Riduanul Islam Talukder Shashi, A. K. M. Rashidul Alam, John Liton Munshi, and Chapol Kumar Roy
14:45 – 15:00	<b>Paper ID# 81158</b> <b>Title:</b> Strategies and barriers towards climate change: Challenges in agricultural sector in Bangladesh <b>Authors:</b> Kanis Fatama Ferdushi, Md. Samiul Islam, and Abdur Rahman
<b>15:00 – 15:30</b>	<b>Tea Break</b>
	<b>Chair</b> : Prof. A. T. M. Shakhwat Hossain <b>Co-Chair</b> : Prof. Dr. Md. Abdur Rab
	<b>Paper ID, Title and Authors</b>
15:30 – 15:45	<b>Paper ID# 81186</b> <b>Title:</b> Quantitative Approaches in the Field of Geosciences <b>Authors:</b> Md. Sakawat Hossain, S. M. Mahbul Ameen, and Rumana Yeasmin
15:45 – 16:00	<b>Paper ID# 81184</b> <b>Title:</b> Meso-scale tectonic structures in part of Aravalli fold belt, northwestern India: implication to paleo-stress analysis <b>Authors:</b> Javed Iqbal, and Syed Ahmad Ali
16:00–16:15	<b>Paper ID# 81219</b> <b>Title:</b> Characterisation of Heavy Mineral Sand Deposits of Bangladesh <b>Author:</b> Eunuse Akon
16:15 – 16:30	<b>Paper ID# 81220</b> <b>Title:</b> Miocene Reservoir Study, Mid-Eastern Bangladesh <b>Authors:</b> Abdus Samad Azad, Zabir Hossain, and Edwin Bowles

<b>Parallel Session –IV (Math+Geo)</b> <b>(Room: Stat # 116, Math-Stat Building)</b>	
<b>Time</b>	<b>Chair</b> : Prof. Dr. Md. Nurul Alam <b>Co-Chair</b> : Dr. Md. Shafiqul Islam
	<b>Paper ID, Title and Authors</b>
12:00 – 12:15	<b>Paper ID# 81105</b> <b>Title:</b> Thermal Behavior and Magnetic Properties of Co-rich Nd <sub>2</sub> Fe <sub>14</sub> B/Fe <sub>3</sub> B Nanocomposite Magnetic Melt-spun Ribbons with partial substitution of Tb for Nd <b>Authors:</b> Palash Chandra Karmaker, Md. Obaidur Rahman, Nguyen Huy Dan, Samia Islam Liba, Per Nordblad, and Sheikh Manjura Hoque

12:15 – 12:30	<b>Paper ID# 81435</b> <b>Title:</b> Effects of vortex-like ion distribution on dust-acoustical solitary waves in a self-gravitating opposing polarity dust plasma medium <b>Authors:</b> A. Paul, G. Mandal, A. A. Mamun, and M. R. Amin
12:30 – 12:45	<b>Paper ID# 81152</b> <b>Title:</b> Design and development of voltage and over-load current protector for three phase motor <b>Authors:</b> Farzana Ferdous, and Md. Abdul Mannan Chowdhury
12:45 – 13:00	<b>Paper ID# 81180</b> <b>Title:</b> Instability and Growth of Temperature, Rainfall and Humidity in Bangladesh <b>Authors:</b> Md. Meshbahur Rahman, Mohammad Aminul Kaiser, and Kanis Fatama Ferdushi
<b>13:00 – 14:00</b>	<b>Lunch Break</b>
	<b>Chair</b> : Prof. Dr. Abeda Sultana <b>Co-Chair</b> : Dr. Aminur Rahman Khan
	<b>Paper ID, Title and Authors</b>
14:00 – 14:15	<b>Paper ID# 81146</b> <b>Title:</b> Base Stock Stochastic Inventory System in Jackson Networks <b>Authors:</b> Mohammad Ekramol Islam, Md. Amirul Islam, and Sayeed Sabbir Ahmed
14:15 – 14:30	<b>Paper ID# 81149</b> <b>Title:</b> Optimal production model with quality sensitive market demand, partial backlogging and permissible delay in payment <b>Author:</b> Brojeswar Pal
14:30 – 14:45	<b>Paper ID# 81194</b> <b>Title:</b> A Numerical Study on One-Dimensional Reaction-Diffusion Equation and Fisher's Equation <b>Authors:</b> Faria Ahmed Shami, and Laek Sazzad Andallah
14:45 – 15:00	<b>Paper ID# 81200</b> <b>Title:</b> Impact of Submarine Landslides in Water Reservoirs: Variation of Height of Obstacles <b>Authors:</b> Jeevan Kafle, and Bhadra Man Tuladhar
<b>15:00 – 15:30</b>	<b>Tea Break</b>
	<b>Chair</b> : Prof. Dr. Laek Sazzad Andallah <b>Co-Chair</b> : Dr. Abdur Rashid
	<b>Paper ID, Title and Authors</b>
15:30 – 15:45	<b>Paper ID# 81201</b> <b>Title:</b> Dynamic flow-obstacle-interaction using quasi-two-phase mass flow model <b>Authors:</b> Khim B. Khattri, and Bhadra Man Tuladhar
15:45 – 16:00	<b>Paper ID# 81202</b> <b>Title:</b> Interaction of Two-Phase Debris Flow with Lateral Solid Walls: Dynamic Impact Pressure and Contraction Ratio <b>Authors:</b> Parameshwari Kattel, and Bhadra Man Tuladhar
16:00–16:15	<b>Paper ID# 81203</b> <b>Title:</b> Generalized Quasi Two-Phase Mass Flow Model : Derivation and Description <b>Authors:</b> Puskar R. Pokhrel, and Bhadra Man Tuladhar
16:15 – 16:30	<b>Paper ID# 81204</b> <b>Title:</b> Formulation of Mixed Type Trapezoidal Intuitionistic Fuzzy Transportation Problem (MTTpIFTP): An Intuitionistic Fuzzy Approach <b>Authors:</b> Nizam Uddin Ahmed, Aminur Rahman Khan, and Md. Sharif Uddin



**Date: 29-01-2018**

**Plenary Talk**

<b>Time</b>	<b>Chair</b> : Prof. Swapan Kumar Dhar <b>Co-Chair</b> : Prof. Jahidur Rahman
10:00 – 10:45	Prof. K. Sugiura (Japan, Chem) <b>Topic:</b> pai-Expanded Biaryls and Their Photophysical Properties
10:45 – 11:30	Prof. A A Mamun <b>Topic:</b> Open issues in dusty plasma models for the study of solitary and shock waves
<b>11:30 – 12:00</b>	<b>Tea Break</b>

**Technical Session**

<b>Parallel Session -I (Phy+CSE+Chem)</b> <b>(Room: Stat # 103, Math-Stat Building)</b>		
<b>Time</b>	<b>Chair</b> : Prof. Dr. Md. Sharif Uddin <b>Co-Chair</b> : Dr. Md. Sabbir Alam	
12:00 –12:30	Prof. M. Hasegawa (Japan, Chem.) <b>Topic:</b> Facile Synthesis of Thiocalix[n]thiophene derivatives	
	<b>Paper ID, Title and Authors</b>	
12:30–12:45	<b>Paper ID# 81152</b> <b>Title:</b> Design and Development of Voltage and Over-load Current Protector for Three Phase Motor <b>Authors:</b> Farzana Ferdous, and Md. Abdul Mannan Chowdhury	
12:45 – 13:00	<b>Paper ID# 81197</b> <b>Title:</b> Identifying Differentially Expressed Genes Using Mode Fold Change <b>Author:</b> Md. Fazlul Karim Patwary	

<b>Parallel Session –II (Math+Stat)</b> <b>(Room: Stat # 115, Math-Stat Building)</b>		
<b>Time</b>	<b>Chair</b> : Prof. Dr. Obaidur Rahman <b>Co-Chair</b> : Dr. Mohammad Osman Gani	
	<b>Paper ID, Title and Authors</b>	
12:00–12:15	<b>Paper ID# 81208</b> <b>Title:</b> Investigation of the dynamical behavior in a three component SIRS Model <b>Authors:</b> Md. Shahariar Hossen, and M. Osman Gani	
12:15 –12:30	<b>Paper ID# 81118</b> <b>Title:</b> Algorithmic Approach to obtain an Initial Basic Feasible Solution for the Transportation Problems <b>Authors:</b> Mollah Mesbahuddin Ahmed, Aminur Rahman Khan, and Faruque Ahmed	
12:30–12:45	<b>Paper ID# 81131</b> <b>Title:</b> MHD Viscous Compressible Fluid Flow with Induced Magnetic Field <b>Authors:</b> Md. Tusher Mollah, Muhammad Minarul Islam, and Md. Mahmud Alam	
12:45 – 13:00	<b>Paper ID#81455</b> <b>Title:</b> Experimental Investigation of LDB-Type Flapping Wind Turbine <b>Author:</b> Md. Sabbir Alam, Hiroyuki Hirahara	

<b>Parallel Session –III (Chem+Geo+Env)</b> <b>(Room: Stat # 117, Math-Stat Building)</b>	
<b>Time</b>	<b>Chair</b> : Prof. Dr. Md. Manzurul Karim <b>Co-Chair</b> : K. M. Akkas Ali
<b>Paper ID, Title and Authors</b>	
12:00 –12:15	<b>Paper ID# 81221</b> <b>Title:</b> Geochemical composition of the Plio-Pleistocene sandstones of the Chittagong Tripura Fold Belt (CTFB), eastern Bengal Basin: Implications for provenance and tectonic setting <b>Authors:</b> Nafisa Tamanaya Dina, M. Julleh Jalalur Rahman, Md. Sakawat Hossain, Rumana Yeasmin, and Abu Sadat Md. Sayem
12:15 –12:30	<b>Paper ID# 81231</b> <b>Title:</b> Synthesis and Characterization of cu(ii), fe(iii) Complexes with Pyridine as a Ligand <b>Authors:</b> Faridul Islam, Md. Amran Hossain, Md. Mahbubur Rahman, Md. Zahidul Islam, Likson Chowdhury, Sreebash Chandra Bhattacharjee, and Jannat Al Foisal
12:30 –12:45	<b>Paper ID# 81243</b> <b>Title:</b> Mathematics: Thinking Language <b>Author:</b> Syed Mizanur Rahman (Razu)
12:45 – 13:00	<b>Paper ID# 81181</b> <b>Title:</b> Physico-Chemical study of the mixed micelle formation between tetradecyltrimethylammonium bromide and benzyldimethylhexadecylammonium chloride in aqueous/urea solution at various temperatures <b>Authors:</b> Mohammad Robel Molla, Malik Abdul Rub, and Md. Anamul Hoque

<b>Parallel Session –IV (Math+Geo)</b> <b>(Room: Stat # 116, Math-Stat Building)</b>	
<b>Time</b>	<b>Chair</b> : Prof. Dr. Md. Imdadul Islam <b>Co-Chair</b> : Prof. Dr. Amir H. Bhuiyan
<b>Paper ID, Title and Authors</b>	
12:00 –12:15	<b>Paper ID# 81206</b> <b>Title:</b> Theoretical Modification to the Transportation Problem <b>Authors:</b> Md. Ashraful Babu, M. A. Hoque, and Md. Sharif Uddin
12:15 –12:30	<b>Paper ID# 81207</b> <b>Title:</b> A Time Dependent Inventory Model for Exponential Demand Rate Considering Decay in Items <b>Authors:</b> Shirajul Islam Ukil, Md. Siddique Hossain, and Md. Sharif Uddin
12:30–12:45	<b>Paper ID# 81209</b> <b>Title:</b> Existence of Periodic Traveling Wave Solutions in a SIS Epidemiological Model with a Nonlinear Incidence Rate <b>Authors:</b> Md. Ariful Islam Arif and M. Osman Gani
12:45 – 13:00	<b>Paper ID# 81210</b> <b>Title:</b> Numerical Analysis on Heat Transfer Augmentation using ag-water Nanofluids <b>Authors:</b> M. M. Billah, M. Sharif Uddin, M. N. Islam, and Aminur Rahman Khan
13:00 – 13:15	<b>Paper ID# 81225</b> <b>Title:</b> Geo-environmental characteristics of the relocated tannery industrysite around Savar, Dhaka <b>Authors:</b> Mahmuda Khatun, Md. Mahfuzul Haque, Khairul Bashar, and Sultana Nasrin Nury
<b>13:15– 14:00</b>	<b>Lunch Break</b>

## Poster Presentation

14:00–15:30	Accepted Papers
	<p style="text-align: center;"><b><u>Geological Sciences/Environmental Sciences</u></b></p> <p><b>Paper ID:</b> 81110 <b>Title:</b> Analysis of Dynamic Model for the Transmission of Chikungunya Epidemic in Bangladesh <b>Author(s):</b> Reshma Akter, Md. Haider Ali Biswas, and Payer Ahmed</p> <p><b>Paper ID:</b> 81130 <b>Title:</b> Effectiveness of Media in Controlling Infectious Diseases : A Mathematical Analysis <b>Author(s):</b> Sharmin Sultana Shanta, and Md. Haider Ali Biswas</p> <p><b>Paper ID:</b> 81137 <b>Title:</b> Approaches and Associated Costs for the Removal of Abandoned Buildings of KUET in Bangladesh <b>Author(s):</b> Md. Shah Jamal, Md. Farhad Hossain Rakib, and Md. Habibur Rahman Sobuz</p> <p><b>Paper ID:</b> 81141 <b>Title:</b> Some Observations and Lessons Learned: Cyclone ‘MORA’ and ‘Land slide of Chittagong’, Bangladesh <b>Author(s):</b> Md. Shah Jamal, Md. Meskatul Islam, Md. Habibur Rahman Sobuz, and Md. Manjur Morshed</p> <p><b>Paper ID:</b> 81180 <b>Title:</b> Instability and Growth of Temperature, Rainfall and Humidity in Bangladesh <b>Author(s):</b> Md. Meshbahur Rahman, Mohammad Aminul Kaiser, and Kanis Fatama Ferdushi</p> <p><b>Paper ID:</b> 81187 <b>Title:</b> Application of High Voltage Discharge Plasma for Treatment of harmful water microorganisms Chlamydomonas Algae <b>Author(s):</b> Md. Abdul Halim, and Ruma</p> <p><b>Paper ID:</b> 81205 <b>Title:</b> Soil chronoassociation of the Brahmaputra (Jamuna), Padma (Ganges) and Meghna interfluvium, Bengal Basin, Bangladesh <b>Author(s):</b> Zahidul Bari, Md. Sharif Hossain Khan, and Khalil R. Chowdhury</p> <p><b>Paper ID:</b> 81234 <b>Title:</b> An experimental evaluation of the direct and indirect effects of endemic seaweeds, barnacles, and invertebrate predators on the abundance of the introduced rocky intertidal barnacle <i>Balanus glandula</i> <b>Author(s):</b> A. K. M. Rashidul Alam, and Takashi Noda</p> <p style="text-align: center;"><b><u>Mathematics</u></b></p> <p><b>Paper ID:</b> 81106 <b>Title:</b> Some Structures of Soft Hemirings <b>Author(s):</b> Md. Yasin Ali, Kanak Ray Chowdhury, Abeda Sultana, and Nirmal Kanti Mitra</p> <p><b>Paper ID:</b> 81108 <b>Title:</b> On Fuzzy Soft Hemirings <b>Author(s):</b> Abeda Sultana, Md. Yasin Ali, Kanak Ray Chowdhury, and Nirmal Kanti Mitra</p>

<p><b>Paper ID:</b> 81111  <b>Title:</b> On Moore-Penrose Inverse of Matrices over Semirings  <b>Author(s):</b> Kanak Ray Chowdhury, Md. Yasin Ali, Abeda Sultana, and Nirmal Kanti Mitra</p> <p><b>Paper ID:</b> 81113  <b>Title:</b> Perishable Inventory model for Postponed demand with Reworks  <b>Author(s):</b> Mohammad Ataulah, Mohammad Ekramol Islam, and Md. Sharif Uddin</p> <p><b>Paper ID:</b> 81114  <b>Title:</b> Fuzzy production-inventory model involving variable demand with normal distribution of lead time for deteriorating item  <b>Author(s):</b> Rabeya Sarker, Aminur Rahman Khan, and Md. Sharif Uddin</p> <p><b>Paper ID:</b> 81115  <b>Title:</b> Solving Transportation Problem  <b>Author(s):</b> Aminur Rahman Khan, Nahid Sultana, and Md. Sharif Uddin</p> <p><b>Paper ID:</b> 81116  <b>Title:</b> Solving Unbalanced Transportation Problem in MMUM, Where Difference of Supply and Demand Claimed as Prime Number  <b>Author(s):</b> Md. Main Uddin, Abdur Rashid, and Md. Sharif Uddin</p> <p><b>Paper ID:</b> 81117  <b>Title:</b> Mathematical model analysis for glucose insulin regulation inside the whole body system  <b>Author(s):</b> Sonia Akter, Md. Sirajul Islam, and Md. Haider Ali Biswas</p> <p><b>Paper ID:</b> 81119  <b>Title:</b> An Innovative Approach to Solve Balanced Assignment Problems  <b>Author(s):</b> Md. Nurul Huda, Faruque Ahmed, and Md. Sharif Uddin</p> <p><b>Paper ID:</b> 81120  <b>Title:</b> Effect of Exponential Thermal Boundary Condition on Unsteady Magnetohydrodynamic Convection in a Square Enclosure Filled with Fe<sub>3</sub>O<sub>4</sub>-Water Ferrofluid  <b>Author(s):</b> Eare Md. Morshed Alam, Md. Mustafizur Rahman, and Md. Sharif Uddin</p> <p><b>Paper ID:</b> 81121  <b>Title:</b> Evaluation of the Performance of Various Transportation Problem Solving Algorithms  <b>Author(s):</b> Mollah Mesbahuddin Ahmed, Aminur Rahman Khan, and Md. Sharif Uddin</p> <p><b>Paper ID:</b> 81125  <b>Title:</b> An Approach for Solving Symmetric Traveling Salesman Problems  <b>Author(s):</b> Kalyan Mallick, Mohammad Nazrul Islam, and Md. Sharif Uddin</p> <p><b>Paper ID:</b> 81127  <b>Title:</b> A new Approach to solve balanced and unbalanced Assignment Problems  <b>Author(s):</b> Shabiha Yesmin, Md. Shrif Uddin, and Aminur Rahman Khan</p> <p><b>Paper ID:</b> 81129  <b>Title:</b> A Mathematical Model for Minimizing the Harmful Effects of Drug Addiction in Bangladesh Using Optimal Control Technique  <b>Author(s):</b> Md. Azmir Ibne Islam, and Md. Haider Ali Biswas</p> <p><b>Paper ID:</b> 81132  <b>Title:</b> Development of an Algorithm for Solving Travelling Salesman Problem  <b>Author(s):</b> Emran Islam, Abdur Rashid, and Faruque Ahmed</p>
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	<p><b>Paper ID:</b> 81143  <b>Title:</b> Comparison the Forecasting Performance of ARIMA and ARFIMA model  <b>Author(s):</b> Md. Mossabber Chowdhury, Md. Moyazzem Hossain, and Ajit Kumar Mazumdar</p>
	<p><b>Paper ID:</b> 81144  <b>Title:</b> Numerical solutions of higher order boundary value problems (BVP's) using finite difference method (FDM)  <b>Author(s):</b> Md. Amirul Islam, Nurul Alam Khan, and Abdur Rashid</p>
	<p><b>Paper ID:</b> 81153  <b>Title:</b> Optimization Analysis between Broker and Consumer in Cloud Computing  <b>Author(s):</b> Samen Bairaghi, Golam Ittihad Udoy, and Munnujahan Ara</p>
	<p><b>Paper ID:</b> 81154  <b>Title:</b> Modeling the Effect of Adoptive Cell Transfer Therapy for the Treatment of Leukemia  <b>Author(s):</b> Mst. Shanta Khatun, Md. Aminul Islam, and Md. Haider Ali Biswas</p>
	<p><b>Paper ID:</b> 81183  <b>Title:</b> Forecasting Agricultural Production in Bangladesh Using Multiple Linear Regression (MLR) Analysis  <b>Author(s):</b> Sayedul Anam, Aminur Rahman Khan, and Md. Sharif Uddin</p>
	<p><b>Paper ID:</b> 81213  <b>Title:</b> Stability analysis of PTWsin a diffusivepredator-prey model  <b>Author(s):</b> AfiaFarzana, Popy Das, Muztaba Ahabab, and M. Osman Gani</p>
	<p><b>Paper ID:</b> 81214  <b>Title:</b> Periodic traveling wave solutions in a reaction-diffusion system of predator-prey model  <b>Author(s):</b> Md. Muztaba Ahabab, Afia Farzana, and M. Osman Gani</p>
	<p><b>PaperID:</b> 81215  <b>Title:</b> Existence Existence of periodic traveling waves in the SIS epidemic model  <b>Author(s):</b> Taslima Khatun, Md. Ariful Islam Arif, Md. Shahariar Hossen, Md. Muztaba Ahabab, and M. Osman Gani</p>
	<p><b>Paper ID:</b> 81216  <b>Title:</b> Effect of HFS current on nerve cell dynamics through Hodgkin-Huxley model  <b>Author(s):</b> Navojit Dhali Pallab, Mirazul Islam, and M. Osman Gani</p>
	<p><b>Paper ID:</b> 81217  <b>Title:</b> Bifurcation Analysis of Periodic Traveling Waves in a Two-Component Predator-Prey Model  <b>Author(s):</b> Popy Das, Afia Farzana, and M. Osman Gani</p>
	<p><b>Paper ID:</b> 81218  <b>Title:</b> Stability of periodic traveling waves in a reaction-diffusion type model of cardiac excitation  <b>Author(s):</b> Mirazul Islam, Navojit Dhali Pallab, Md. Abu Talha, and M. Osman Gani</p>
	<p><b>Paper ID:</b> 81241  <b>Title:</b> Inequality Property of Interchange of Base and Index  <b>Author(s):</b> Md. Maniruzzaman Miah</p>

## Computer Science and Engineering

**Paper ID:** 81103

**Title:** Word Sense Disambiguation for Bangla Words Using Apriori Algorithm

**Author(s):** Mohammad Shibli Kaysar, and Mohammad Ibrahim Khan

**Paper ID:** 81147

**Title:** Pattern Recognition of Rainfall in Bangladesh Using Wavelet Transform

**Author(s):** Abdur Rahman, Ataul Mustufa Anik, and Zaki Farhana

**Paper ID:** 81151

**Title:** Application of Support Vector Machine in Stock Market Forecasting Comparing with the ANN and ARIMA Models

**Author(s):** Faruq Abdulla, Md. Moyazzem Hossian, and Sharmin Akter Sumy

**Paper ID:** 81191

**Title:** Cloud based offloading algorithm to increase energy efficiency of smartphone battery life

**Author(s):** Md. Mahfujur Rahman, and Md. Reazul Islam

**Paper ID:** 81302

**Title:** Remote Temperature Sensing Line Following Robot with Bluetooth Data Sending Capability

**Author(s):** Tajim Md. Niamat Ullah Akhund, Ikhtiar Ahmed Sagar, and M. Mesbahuddin Sarker

## Statistics

**Paper ID:** 81133

**Title:** Predicting the Rice Production of Bangladesh by Machine Learning Technique

**Author(s):** Shohel Mahmud

**Paper ID:** 81137

**Title:** Approaches and Associated Costs for the Removal of Abandoned Buildings of KUET in Bangladesh

**Author(s):** Md. Shah Jamal, Md. Farhad Hossain Rakib, and Md. Habibur Rahman Sobuz

**Paper ID:** 81139

**Title:** Modelling for Forecasting the Rice Production of Jessore, Rangpur, Dinajpur, Kushtia and Pabna Districts in Bangladesh

**Author(s):** Md. Moyazzem Hossain, and Arafat Rahman

**Paper ID:** 81140

**Title:** Modeling of Mean Sea Level of Bay of Bengal: A Comparison between ARIMA and ANN

**Author(s):** Md. Moyazzem Hossain, Shezan Ahmed, and Md. Habibur Rahman

**Paper ID:** 81143

**Title:** Comparison the Forecasting Performance of ARIMA and ARFIMA model

**Author(s):** Md. Mossabber Chowdhury, Md. Moyazzem Hossain, and Ajit Kumar Mazumdar

**Paper ID:** 81170

**Title:** On the Marginal Likelihood Method of Estimating and Testing Parameters of Remainder Disturbances Follow a Specified AR(p) or MA(q) Process

**Author(s):** Lakshmi Rani Kundu, and Ajit Kumar Majumder

**Paper ID:** 81182  
**Title:** Integrating Overweight-obesity and Reproductive Factors of Married Women in Bangladesh  
**Author(s):** Md. Meshbahur Rahman, Zaki Farhana, Tania Akhter Tani, and Mohammad Ohid Ullah

**Paper ID:** 81192  
**Title:** A Comparative Study among Poisson, Negative Binomial and Hermite Regression  
**Author(s):** Shohel Mahmud, Md. Moyazzem Hossain, and Karimuzzaman Sunny

**Paper ID:** 81315  
**Title:** Co-integration of climate series and Agricultural production of Bangladesh: Comilla district  
**Author(s):** Fabiha Tasnim Aroni, and Ajit Kumar Majumder

**Paper ID:** 81460  
**Title:** On the Performance of Automatic Forecasting Analytics A Monte-Carlo Simulation Study  
**Author(s):** Farhana Akter Bina

**Paper ID:** 81461  
**Title:** Technical Analysis to Evaluate Behavior of Stocks and Use of Technical Indicators in Computer Intensive Method – An Application to Selected Stocks of DSE  
**Author(s):** Sharmin Islam

### Physics

**Paper ID:** 81128  
**Title:** Solitary Waves in Rotational Pulsar Magnetosphere  
**Authors:** T. I. Rajib, A. A. Mamun, and S. Sultana

**Paper ID:** 81157  
**Title:** Determination of Effective Dose of the Thyroid Gland in Nuclear Diagnostic During Thyroid Scan  
**Author(s):** Maryam Mumu, Farzana Ferdous, Md. Selim Reza, Kumaresh Chandra Paul, and Golam Abu Zakaria

**Paper ID:** 81163  
**Title:** Effects of Gamma Irradiation on Structural, Optical and Morphological Characteristics of Nanostructured Cupric Oxide Thin Film  
**Authors:** Humayun Kabir, Pooja Sarker, Sazzad Hossain, Md. Nasrul Haque Mia, Mahbul hoq, and Md. Abdul Mannan Chowdhury

**Paper ID:** 81160  
**Title:** Fabrication and Characterization of Sawdust Fiber Reinforced Acrylonitrile Butadiene Styrene Composites  
**Author(s):** Nabila Tasnim Nova, Budrun Neher, Md. Mahbubur Rahman Bhuiyan, Md. Abdul Gafur, Md. Kamal Hossain, Mst. Shamima Khanom, Farid Ahmed, and Md. Abul Hossain

**Paper ID:** 81165  
**Title:** Design and Development of Microcontroller Based Radiation Survey Meter Using Two Scintillation Detector  
**Author(s):** Humayun Kabir, Ariful Alam, Kazi Golam Martuza, Fahmida Akter, Farhana Hafiz, and Md. Abdul Mannan Chowdhury

	<p><b>Paper ID:</b> 81173  <b>Title:</b> Dust-Acoustic Solitary Waves in a Self-Gravitating Opposite Polarity Dust-Plasma Medium with Trapped Ions  <b>Author(s):</b> Ismita Tasnim, M. G. M. Anowar, S. Rawson, and A A Mamun</p> <p><b>Paper ID:</b> 81189  <b>Title:</b> Investigation of Fiber Loading on Physico-Mechanical Properties of Bamboo Fiber Reinforced ABS Polymer Composite  <b>Author(s):</b> Md. Rashedul Islam, Md. Kamal Hossain, Mst. Shamima Khanom, Budrun Neher, Md. Abdul Gafur, Farid Ahmed, and Md. Abul Hossain</p> <p><b>Paper ID:</b> 81190  <b>Title:</b> Extraction of Different Natural Dyes from Flower Plants  <b>Author(s):</b> S. M. Amir-Al Zumahi, Md. Kamal Hossain, Shariful Islam, Md. Nurul Abser, Rummana Matin, M. S. Bashar, Farid Ahmed, and Md. Abul Hossain</p> <p><b>Paper ID:</b> 81167  <b>Title:</b> Design and Development of Microcontroller Based Digital Soil pH Meter  <b>Author(s):</b> Humayun Kabir, Naima Akter Roly, Farhana Hafiz, Fahmida Akter, Kazi Golam Martuza, and Md. Abdul Mannan Chowdhury</p> <p><b>Paper ID:</b> 81168  <b>Title:</b> Simulation of Track and Landfall of Cyclonic Disturbances over the Bay of Bangal Using WRF-ARW Model  <b>Author(s):</b> Humayun Kabir, Shammy Akter, Shuvro Kumar Dev, Muhammad Abul Kalam Mallik, Md. Abdul Mannan, and Md. Abdul Mannan Chowdhury</p> <p><b>Paper ID:</b> 81169  <b>Title:</b> Simulation of Pre-monsoon Convective Systems for Understanding Their Thermodynamic Features Using NWP Model  <b>Author(s):</b> Humayun Kabir, Shuvro Kumar Dev, Shammy Akter, Md. Abdul Mannan, Muhammad Abul Kalam Mallik, and Md. Abdul Mannan Chowdhury</p> <p><b>Paper ID:</b> 81175  <b>Title:</b> Investigation of Sol-Gel Synthesis of Nano-Zinc Oxide Rod Thin Films  <b>Author(s):</b> Humayun Kabir, Umme Habiba, Md. Nasrul Haque Mia, Mahbulul Hoq, Kazi Golam Martuza, and Md. Abdul Mannan Chowdhury</p> <p><b>Paper ID:</b> 81162  <b>Title:</b> Investigation of Optical, Structural and Morphological Properties of Gamma Irradiated Mg Doped nano-ZnO Thin Films  <b>Author(s):</b> Humayun Kabir, Sazzad Hossain, Pooja Sarker, Md. Nasrul Haque Mia, Mahbulul Hoq, and Md. Abdul Mannan Chowdhury</p> <p><b>Paper ID:</b> 81301  <b>Title:</b> Eigenmode analysis of spherical brain activity via neural field theory  <b>Author(s):</b> Humayun Kabir, Pooja Sarker, Sazzad Hossain, Md. Nasrul Haque Mia, Mahbulul Hoq, and Md. Abdul Mannan Chowdhury</p>
15:30 –16:00	<b>Tea Break</b>
16:00 – 17:00	<b>Closing Ceremony &amp; Cultural Program</b> <b>Venue:</b> VIP Lounge, Central Cafeteria, JU
17:00 – 20:00	<b>Gala Dinner</b> <b>Venue:</b> VIP Lounge, Central Cafeteria, JU