



International Conference on
Crop Production under Changing Climate in Bangladesh: Agronomic Options
Organized by: Bangladesh Society of Agronomy

Date: October 6~7, 2010 (Wednesday and Thursday)

Venue: BARC Auditorium, BARC, Farmgate, Airport Road, Dhaka 1215

Programme

Day-1: Wednesday, 6 October 2010	
Inaugural Session	
8.30 -9.25	Registration
9.25-9.30	Guest take seats
9.30 – 9.35	Recitation from the Holy Quran
9.35 – 9.45	Welcome Address by Dr Rafiqul Islam Mondal, General Secretary, Bangladesh Society of Agronomy
9.45-10.05	Key Note paper on <i>Crop Production under Changing Climate in Bangladesh: Agronomic Options</i> by Dr. M. Zainul Abedin, President, Bangladesh Society of Agronomy
10.05-10.15	Speech by Special Guest Mr Ad Spijkers, FAO Representative in Bangladesh
10.15-10.25	Speech by Special Guest Dr Wais Kabir, Executive Chairman, Bangladesh Agricultural Research Council
10.25-10.45	Presentation of Agronomy Award
10.45-11.05	Architect Yeafesh Osman , State Minister, Ministry of Science and Information & Communication Technology
11.05-11.10	Vote of thanks by Dr Nur Ahamed Khondaker, Member Secretary, Conference Organizing Committee
11.10-11.40	Refreshment
Technical Session I: Climate change –crop production & rural livelihoods - I Chair: Dr. M. A. Razzaque, Project Director, NATP Co-Chair: Prof. Dr. Md. Aatur Rahman, HDSTU, Dinajpur Rapporteurs: Dr. Md. Nurul Islam, BARI and Ms. Nasrin Akhter Litu, SAC	
11.45-12.00	" CHANGING PATTERNS OF TEMPERATURE, RAINFALL, FLOODING AND OTHER CLIMATIC EVENTS IN BANGLADESH AND ITS IMPLICATIONS FOR AGRICULTURE" by Mr. Shameem Hasan Bhuiyan, Bangladesh Meteorological Department
12.00-12.15	IMPACT OF CLIMATE CHANGE ON INDIAN AGRICULTURE by B. S. Mahapatra, Sabyasachi Mitra, M. K. Sinha and Monidipta Saha, Central Research Institute for Jute and Allied Fibres, Barrackpore, Kolkata –700 120, W.B., India
12.15-12.30	DESIGNING CLIMATE CHANGE-READY RICE: SALT AND SUBMERGENCE TOLERANT RICE by Glenn B. Gregorio, Plant Breeding, Genetics, and Biotechnology Division, International Rice Research Institute (IRRI), Philippines
12.30-12.40	EFFECT OF TEMPERATURE, SHADING AND NITROGEN ON SPIKELET DEGENERATION IN DIFFERENT GRAIN SIZE CULTIVARS by *T. H. Ansari, T. Yoshida ¹ and Y. Yamamoto ¹ -Principal Scientific Officer, Bangladesh Rice Res. Institute, Gazipur 1701, Bangladesh ¹ Professor, Faculty of Agriculture, Kochi University, Japan
12.40-12.50	Nutrient use and carbon sequestration efficiencies of different organic wastes in rice by Md. Mizanur Rahman*, Department of Soil Science, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur
12.50-13.00	YIELD RESPONSE OF DIFFERENT CHEWING TYPE SUGARCANE CLONES UNDER FARMERS FIELD CONDITION by M. A.T. Sohel*, M. N. Alam, A. K. M. R. Islam, N. Islam and M. K. Rahman; Bangladesh Sugarcane Research Institute, Pabna
13.00-13.10	ORGANIC MANURING: ITS EFFECT ON RICE YIELD AND SOIL PROPERTIES IN TIDAL FLOODED ECOSYSTEM OF BANGLADESH by ¹ *M. Sh. Islam, ² F. Rahman ² and ² M. A. Saleque; Bangladesh Rice Research Institute, Regional Station, Barisal and Soil Science Division, Bangladesh Rice Research Institute, Gazipur
13.10-14.00	Prayer and Lunch
Technical Session II: Climate change –crop production & rural livelihoods -II Chair: Prof. Dr. S M Altaf Hossain, Department of Agronomy, Bangladesh Agricultural University Co-Chair: Dr. Md. Khalilur Rahman, BSRI, Pabna Rapporteurs: Dr. Md. Yunus Ali Pramanik, DAE and Mr. Md. Tauhidur Rahman, BARI	

14.00-14.15	MANAGING RICE IN A CHANGING CLIMATE: EXPERIENCES FROM THE PHILIPPINES by Roland J. Buresh, International Rice Research Institute, Philippines
14.15-14.30	RISE IN ATMOSPHERIC CO ₂ AND ITS IMPACT ON CROP PRODUCTIVITY: RESEARCH AND TECHNOLOGY: SOUTH ASIAN STUDIES by D. C. Uprety* Emeritus Scientist, Division of Plant physiology, Indian Agricultural Research Institute, New Delhi
14.30-14.40	RESPONSE OF MAIZE TO ALLELOPATHIC WATER EXTRACTS WITH AND WITHOUT FERTILIZER by *Cheema, Z A., M. Abubakar A. Khaliq and A. Wahid; Weed Science-Allelopathy Lab., Department of Agronomy, University of Agriculture, Faisalabad 38040, Pakistan
14.40-14.50	ALLELOPATHIC EFFECT OF <i>Brassica</i> BIOMASS ON WEED CONTROL OF WHEAT, P. K. Biswas*, M. Morshed and A. Rahman, Department of Agronomy, Sher-e-Bangla Agricultural University, Dhaka 1207, Bangladesh
14.50-15.00	MUSTARD-BORO RICE MIXED CROPPING, A POTENTIAL TECHNOLOGY TO BOOST UP MUSTARD PRODUCTION by Islam M Nazrul*, A Hossain and S Islam, On-Farm Research Division, BARI, Comilla
15.00-15.10	ALLELOPATHY AS A POSSIBLE STRATEGY FOR WEED CONTROL IN MUNGBEAN, A. N. M. Ansary*, P. K. Biswas and M. Obaidul Islam Department of Agronomy, Sher-e-Bangla Agricultural University, Dhaka-1207
15.10-15.20	PARTHENIUM INFESTATION IN BANGLADESH: IS IT RISKY IN THE CHANGED CLIMATE IN FUTURE? By S. M. Rezaul Karim*, Department of Agronomy, Bangladesh Agricultural University, Mymensingh
15.20-15.30	DOUBLE TRANSPLANTING IN BORO FOR ENHANCING SYSTEM PRODUCTIVITY OF T. AMAN -POTATO- BORO CROPPING SEQUENCE by M. Harunur Rashid, K. Quais, A. Saha and A. H. Khan; Rice Framing Systems Division, Bangladesh Rice research Institute, Gazipur
15.30-15.40	Competitive ability of rice cultivars against weed suppression in wet seeded boro rice by M K A Bhuiyan*, M A J Mridha, S A Islam and G J U Ahmed Agronomy Division, Bangladesh Rice Research Institute, Gazipur-1701
15.40-15.50	Tea
Technical Session III: Coping with draught and water management Chair: Prof. Dr. Z. A. Cheema, Department of Agronomy, University of Agriculture, Faisalabad, Pakistan Co-Chair: Prof. Dr. Hazrat Ali, Department of Agronomy, Sher-e-Bangla Agricultural University Rapporteurs: Dr. Md. Khairul Alam Bhuiyan, BARRI and Dr. K M Shamsul Haque, BSMRAU	
15.50-16.00	SCREENING OF MUNGBEAN GENOTYPES FOR DROUGHT TOLERANCE by M A K Mian*, M R Islam, M S Alam and M A Aziz, Regional Agricultural Research Station, Bangladesh Agricultural Research, Ishurdi-6620, Pabna
16.00-16.10	CRITICAL TEMPERATURES AND THEIR PROBABILITIES ON THE DIFFERENT IMPORTANT GROWTH STAGES OF RICE by Jiban Krishna Biswas, Md. Abdullah-al-Mahbub and Md. Shajahan Kabir, Bangladesh Rice Research Institute, Gazipur-1701
16.10-16.20	SCREENING OF WHEAT GENOTYPES GROWN UNDER WATER STRESS CONDITION by Dilwar Ahmed Choudhury*, Muhammad Salim and Abdur Rahman Sarkar; Bangladesh Agricultural Research Institute, Joydebpur, Gazipur-1701
16.20-16.30	SCREENING OF WHEAT GENOTYPES FOR DROUGHT TOLERANCE AT VEGETATIVE STAGE by M. R. Haque*, M. A. Aziz, M. T. Rahman, B. Ahmed and D.A. Chowdhary; Agronomy Division, Bangladesh Agricultural Research Institute, Joydebpur, Gazipur
16.30-16.40	SPACING AND NITROGEN-PHOSPHORUS REQUIREMENT OF DWARF PEGIONPEA FOR RAINFED CULTIVATION by ¹ M.S. Alam*, M.A Islam ² and M.A.K. Mian ¹ Regional Agricultural Research Station, Bangladesh Agricultural Research, Pabna
16.40-16.50	IMPROVING DROUGHT TOLERANCE IN MAIZE BY EXOGENOUS APPLICATION OF PHYTOHORMONE by Nurunnaher Akter*, Md. Rafiqul Islam and M Abdul Karim; Department of Agronomy, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur, Bangladesh
16.50-17.00	IMPROVING PRODUCTIVITY AND SUSTAINABILITY IN WARMER AREAS THROUGH RESOURCE CONSERVING TECHNOLOGIES: SAVE WATER AND REDUCE GLOBAL WARMING by M. Ilias Hossain ¹ , M.I. Hossain ² , M. A. Salam ³ , M. H. Ullah ⁴ and M. S. Islam ⁵ ; Wheat Research Center, BARI, Shyampur, Rajshahi
17.00-17.10	FERTILIZER MANAGEMENT FOR WHEAT-MUNGBEAN-RICE CROPPING PATTERN IN ZERO TILLAGE CONDITION by M. A. Zaman Sarker*, Md. Bodruzzaman, Md. Israil Hossain ¹ and Paritosh K. Malaker, Wheat Research Centre, Bangladesh Agricultural Research Institute, Dinajpur-5200
17.10-17.20	EFFECT OF GREEN MANURING CROPS IN DIFFERENT CROPPING PATTERNS ON

	RICE PRODUCTIVITY UNDER RAINFED ECOSYSTEM by ¹ M A Kashem*, ² S M A Hossain, ² M S U Bhuiya and ³ M H Mian, ¹ Technology Transfer Monitoring Unit, BARC, Farmgate, Dhaka 1215, ² Dept. of Agronomy, BAU, Mymensingh; and ³ Dept. of Soil Science, BAU, Mymensingh
17.20-17.30	SCREENING FOR DROUGHT STRESS TOLERANCE IN AUS RICE, by K.M. Shamsul Haque*, Md. Rafiqul Islam and M. Abdul Karim; Department of Agronomy; Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur
17.30-18.00	Prayer
18.00-19.00	Cultural Function
Day-2: Thursday, 7 October 2010	
Technical Session IV: Risk management in crop production-associated with rainfall, flood and submergence Chair: Dr. Mohammad Hossain Mondal, Former Director General, BARI Co-Chair: Dr. M. A. Salam, Director (Research), BINA Rapporteurs: Dr. Md Abdul Kader, BAU and Dr. HMM Tarique Hassan, SAU	
9.00-9.15	FOOD SECURITY AND RESOURCE CONSERVATION FOR HIGHER CROP PRODUCTION by *J K Latha and Murshidul Alam, IRRI
9.15-9.30	ENSO EFFECTS ON RICE PRODUCTION IN BANGLADESH-II by *Jiban Krishna Biswas ¹ , David Dawe ² , Patricia Mae V. Casal ³ , and Md. Shameem Hassan Bhuiyan ⁴ . ¹ Bangladesh Rice Research Institute, Gazipur-1701; ² United Nations Food and Agriculture Organization, Rome, Italy; ³ SEARCA, Los Banos, Philippines ⁴ Meteorologist (Agromet Division), Bangladesh Meteorological Department
9.30-9.40	MINIMUM TILLAGE SEEDING TECHNIQUE FOR SAFE ENVIRONMENT AND SUSTAINABLE RICE-WHEAT CROPPING SYSTEM IN BANGLADESH by Md. Israil Hossain ¹ , M S Islam ² , S.Hasan ³ , C A Meisner ⁴ and N.A Siddique ¹ ; ¹ Regional Wheat Research Center, WRC, Rajshahi, Bangladesh; ² Wheat Research Center, BARI, Nashipur, Dinajpur, ³ FMPE Division, BARI, Gazipur; ⁴ Agronomist, ACIAR,
9.40-9.50	SCREENING OF SESAME GENOTYPES TO WATERLOGGING TOLERANCE by R. R. Saha*, B Ahamed, M. A. Aziz and M. A. Hossain, Agronomy Division, Bangladesh Agricultural Research Institute, Gazipur-1701
9.50-10.00	GROWTH AND YIELD RESPONSES OF MUNGBEAN GENOTYPES UNDER FLOODING, WET PUDDLING AND SATURATED SOIL CULTURE by Md. Rafiqul Islam, K.M. Shamsul Haque and S. M. Shahriar Parvej*Department of Agronomy, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur
10.00-10.10	SUBMERGENCE TOLERANT RICE VARIETIES AND THEIR MANAGEMENT OPTION FOR NORTH-WESTERN REGION OF BANGLADESH by A J Mridha*, K M Iftekharuddaula ¹ , M A Mazid, M S Zahan and Ismail A Bagi ² ; Agronomy Division, ¹ Plant Breeding, Bangladesh Rice Research Institute, and ² International Rice Research Institute, Philippines
10.10-10.20	USE OF PESTICIDES IN VEGETABLE FARMS AND ITS IMPACT ON HEATH OF FARMERS AND ENVIRONMENT by *Nepal C Dey ¹ and Fazlul Haq ² ¹ Research and Evaluation Division, BRAC, 75 Mohakhali, Dhaka 1212, Bangladesh, ² CASEED, House # 73, Road # 11A, Dhanmondi RA, Dhaka 1209, Bangladesh
10.20-10.30	Soil flooding tolerance in mungbean under field conditions by Tania Pervin*, Md. Rafiqul Islam, Abdul Hamid, M Moynul Haque and Jalal U. Ahmed, Department of Agronomy, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur
10.30-10.40	RICE ALLELOPATHY: A POSSIBLE MEANS TO OVERCOME THE RISK OF WEEDYNESS IN FUTURE CHANGED CLIMATE by A J Mridha ¹ *, S.M. Rezaul Karim ² and S.U. Bhuiya ² . ¹ Agronomy Division, Bangladesh Rice Research Institute, Gazipur, ² Department of Agronomy, Bangladesh Agricultural University, Mymensingh
10.40-10.50	MANAGEMENT OF CROPS IN EXCESS MOISTURE ENVIRONMENT By Md. Rafiqul Islam*, Department of Agronomy, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Gazipur
10.50-11.00	Tea
Technical Session V: Salinity and climate resilient cropping systems for the coastal areas Chair: Prof. AKM Sayedul H. Chowdhury, Vice Chancellor, Noakhali Science and Technology University Co-Chair: Prof. Dr. Harun-ur-Rashid, PSTU, Patuakhali Rapporteurs: Mr. Sawkat Ali Khan, BARI and Dr. Tuhin Suvra Roy, SAU	
11.00-11.15	GREEN SUPER RICE (GSR) TECHNOLOGY: A HOLISTIC APPROACH TO TACKLE RICE PRODUCTION CONSTRAINTS OF BANGLADESH by Jauhar Ali ¹ *, Jiang Long Xu ² , Yong Ming Gao ² , Rafiqul Islam ³ , Sirajul Islam ⁴ and Zhikang Li ^{1&2} ¹ International Rice Research Institute (IRRI), Philippines; ² Chinese Academy of Agricultural Sciences (CAAS), Beijing, China; ³ Bangladesh Rice

	Research Institute, Gazipur, Bangladesh; ⁴ BRAC, Dhaka, Bangladesh
11.15-11.30	ADAPTATION TO CLIMATE CHANGE : FLOOD TOLERANT RICE FOR ENHANCING AND STABILIZING RICE PRODUCTIVITY IN SOUTH ASIA by U. S. Singh*, M.A. Bari, Manzoor H. Dar, Abdelbagi Ismail and D.J. Mackill; Internal Rice Research Institute, Los Baños, Philippines; IRRI-India Office, 2nd Floor, NASC Complex, CG Block, DPS Marg, New Delhi 110012, India
11.30-11.40	IMPROVING SALINITY TOLERANCE IN CROP PLANTS: HOW FAR AGRONOMY CAN GO? by Md. Abdul Kader* and Najrul Islam, Department of Agronomy, Bangladesh Agricultural University, Mymensingh 2202, Bangladesh
11.40-11.50	RELAY INTERCROPPING POTATO WITH SUGARCANE FOR ADAPTATION WITH CLIMATE CHANGES IN RIVER BASIN (CHAR) AREAS by Shaikh Tanveer Hossain*, Md. Salauddin Ahmed and Kazi Monir Moshar of Agriculture and Environment Division, Padakhep Manabik Unnyan Kendra, Dhaka
11.50-12.00	FOOD SECURITY AND ECOLOGICAL FOOTPRINT OF COASTAL ZONE OF BANGLADESH FOR SUSTAINABLE DEVELOPMENT by B. K. Bala*, and M. A. Hossain ¹ Bangladesh Agricultural University, Mymensingh, 2202, Bangladesh ¹ Bangladesh Agricultural Research Institute, Gazipur, Bangladesh
12.00-12.10	MANAGING COASTAL SOILS FOR INCREASED FOOD PRODUCTION UNDER THE CHANGING ENVIRONMENT by Sheikh A. Sattar, SARCCAB Project, IRRI
12.10-12.20	SALT TOLERANCE LEVEL OF RELAY KHESARI WITH T. AMAN AND SWEET POTATO IN SALINE AREA OF NOAKHALI by Md. Amin ¹ , M A Faisal ² , M A Rahaman ³ , M S Bhuyian ⁴ , M J U Sarker ⁵ , On-Farm Research Division, BARI, Noakhali,
12.20-12.30	EFFECT OF SALINITY ON PHOTOSYNTHESIS, CELL MEMBRANE STABILITY AND WATER RETENTION CAPACITY OF TWO SOYBEAN GENOTYPES DIFFERING IN SALINITY TOLERANCE by M. A. Mannan ^{1*} , M. Karim ² , Q. Khaliq ² , M. Haque ² , M. Mian ³ and J. Ahmed ⁴ ¹ Department of Agronomy, Patuakhali Science and Technology University, Dumki, Patuakhali-8602,
12.30-12.40	PERFORMANCE OF SUGARCANE AS RELAY CROP IN RICE AND SUBSEQUENT INTERCROPPING by A. K. M. R. Islam*, M. S. Hossain, M. A. T. Sohel, M. J. Alam and M. K. Rahman; Bangladesh Sugarcane Research Institute, Ishurdi, Pabna, Bangladesh
12.40-12.50	EFFECT OF DIFFERENT SOWING DATES ON SEED YIELD AND QUALITY FOR KENAF AND ROSELLE CROPS by Md. Mahbulul Islam, Izaz Ahmed, M. Shahadat Hossain, M. Ali Alamgir and A. T. M. M. Alam; Agronomy Division, Bangladesh Jute Research Institute, Dhaka
12.50-13.00	CASSAVA- A NEW POTENTIAL CROP FOR HUMAN AND ANIMAL FOOD IN BANGLADESH: EFFECT OF CULTIVATION PROTOCOL ON TUBER AND BIOMASS YIELD by M. G. Mostafa* and M. S. A. Fakir; Department of Crop Botany, Bangladesh agricultural University, Mymensingh, Bangladesh
13.00-14.00	Prayer and Lunch
14.00-14.10	EXPLOITATION OF NITROGEN BY PARTHENIUM WEED AND ITS INHIBITORY EFFECTS ON THE GROWTH OF RICE by *M. Aminul Islam ¹ , S. M. Rezaul Karim ¹ and A. Z. M. Moslehuddin ² ¹ Department of Agronomy, ² Department of Soil Science, Bangladesh Agricultural University, Mymensingh
14.10-14.20	STUDY THE GROWTH AND YIELD OF GINGER UNDER DIFFERENT NITCHES by Reaz U. Shamim*, Md. Mahmudul Hasan, Md. Emran K. Chowdhury, Md. Ashikul Islam and M. Mostafa Kamal; Spices Research Center, Bangladesh Agricultural Research Institute, Bogra
14.20-14.30	INFLUENCE OF SOWING DEPTH AND SEED SIZE ON DIFFERENT PHYSIOLOGICAL ATTRIBUTES OF MUNGBEAN by K. Fatima*, P. K. Biswas, H. Ali and J. Rahman ¹ ; Department of Agronomy and ¹ Department of Genetics and Plant Breeding, Sher-e-Bangla Agricultural University, Dhaka-1207, Bangladesh
14.30-14.40	ALLELOPATHIC EFFECTS OF PARTHENIUM WEED DEBRIS IN SOIL ON THE EMERGENCE AND DEVELOPMENT OF FIELD CROPS by Omker Biswas*, S.M. Rezaul Karim and M. Moshir Rahman, Department of Agronomy, Bangladesh Agricultural University, Mymensingh
14.40-14.50	STUDY ON SUITABILITY AND CROPPING INTENSITY THROUGH RELAYING WHEAT WITH POTATO AT JAMALPUR REGION by M. A. Khaleque ¹ , Md. Khaled Sultan ² , M. A. Baset ³ , D. J. Costa ⁴ and M. Ahmed ⁵ ; Regional Agricultural Research Station, BARI, Jamalpur
14.50-15.00	Concluding Remarks
15.00-16.00	Business Session
16.00-16.30	Raffle Draw