

WasteSafe 2011
2nd International Conference
on
Solid Waste Management in Developing Countries
13-15 February 2011
Khulna, Bangladesh

Conference Program

Day 1: 13 February 2011, SUNDAY

13:00 – onward	: Registration (<i>Lawn of CE Building-KUET</i>)
15:00 - 16:00	: Inauguration Ceremony (<i>Auditorium-KUET</i>)
	<ul style="list-style-type: none"> • Welcome Address by the Co-Chair of WasteSafe 2011 and Vice-Chancellor of KUET: Prof. Dr. Muhammed Alamgir • Address by Prof. Dr. Echard Kraft , Bauhaus University Weimar, Germany and ORBIT Association • Address by Prof. Raffaello Cossu, Padova University, Italy and IWWG <p style="text-align: center;">Inaugural Speaker</p> <ul style="list-style-type: none"> • Prof. Dr. M. Alamgir - <i>Organic Waste Management in South Asia</i> • Address by Special Guest : Mr. Talukder Abdul Khaleque, Hon'ble Mayor of Khulna City Corporation • Address by Chief Guest : Dr. Hassan Mahmud, MP, The Hon'ble State Minister of Environment and Forests, Government of Bangladesh • Vote of Thanks by the Head, Department of Civil Engineering, KUET: Prof. Dr. Quazi Sazzad Hossan
16:00 – 16:10	: Photo Session (<i>In front of Auditorium-KUET</i>)
16:10 – 16:30	: Tea Break (<i>Auditorium-KUET</i>)
16:30 – 17:30	<p>: Keynote Session I (<i>Auditorium-KUET</i>)</p> <p>Session Chair: Prof. Dr. Ghasem D. Najafpour <i>(Editor in Chief, World Applied Sciences Journal & Head, Biotechnology Research Center, University of Technology, Iran)</i></p>
16:30 – 17:00	1. Prof. Dr. Raffaello Cossu : Implementation of Environmental Sustainability in Waste Management Strategies for Developing Countries
17:00 – 17:30	2. Prof. Dr. Echard Kraft : Anaerobic Digestion: State-of-the-Art
17:30 – 18:10	<p>: Special Session (<i>Auditorium-KUET</i>)</p> <p>Session Chair: Prof. Dr. Raffaello Cossu <i>(IMAGE Department, University of Padova, Via Loredan 20, 35135 Padova, Italy)</i></p>
17:30 – 17:50	1. Bárbara De Mena Pardo : Situation Review: An analysis of SWM procedures in Southeast Asian emerging and developing nations
17:30 – 18:10	2. Dr. Gerhard Schories : Sustainable Solid Waste Management and knowledge exchange in Asian developing countries
18:30 - 19:30	: Welcome Party (<i>Lawn of CE Building -KUET</i>)

Day 2: 14 February 2011, MONDAY

08:00 – onward	: Registration (<i>Lawn of CE Building-KUET</i>)	
09:00 - 09:30	: Keynote Session II (<i>CE Building-KUET</i>) Session Chair: Prof. Dr. Echard Kraft (<i>Head, Professorship for Biotechnology in Waste Management, Bauhaus University Weimar, Germany and ORBIT Association</i>)	
	<i>09:00 - 09:30</i>	1. Prof. Dr. Ghasem D. Najafpour : Aerobic and Anaerobic Biological Treatment: Several Industrial Case Studies
09:30 - 10:45	: Parallel Technical Session I & II (<i>CE Building-KUET</i>)	
	I. Session Chair: Gunnar Hädrich (<i>Faculty of Civil Engineering, Bauhaus-Universität Weimar, Thüringen, Germany</i>)	II. Session Chair: Dr. Johannes Paul (<i>Team Leader, GTZ-AHT, Philippines</i>)
<i>09:30 - 09:45</i>	ID-108 Generation and Composition of Household Waste in a South Sudanese City: Updated Data from Juba <i>Veronica Di Bella - Italy</i>	ID-005 Climate Mitigation through Eco-efficient Dumpsite Closure: Experiences from the Case Study Ormoc City, Philippines <i>Astrid Lemke - Philippines</i>
<i>09:45- 10:00</i>	ID-081 Enabling Solid Waste Management through Different Institutional Education in Bangladesh: An Analysis of Existing Curriculum <i>Dr. A. Kamruzzaman Majumder – Bangladesh</i>	ID-106 Developing Eco-Village Accelerating an Integrated Solid Waste Management in Rural Areas <i>M.A.I. Chowdhury - Bangladesh</i>
<i>10:00 - 10:15</i>	ID-122 Residential Waste Quantification and Characterization in Addis Ababa, Ethiopia <i>Agata Rymkiewicz – Germany</i>	ID-008 New Composting Method of Organic Wastes with Electricity Generation of Microbial Fuel Cell <i>Kiyoshi Omine - Japan</i>
<i>10:15 - 10:30</i>	ID-111 Multilayer Mathematical Model of Forced Aeration Composting Process: A Simulation Approach for Uniform Aeration <i>Quazi H. Bari – Bangladesh</i>	ID-061 Proposal of Community Participation for a Sustainable Solid-Waste Management System towards Tourism Development in the Cox's Bazar Sea Beach, Bangladesh <i>By Md. Tariq – Bangladesh</i>
<i>10:30 - 10:45</i>	ID-125 The Role of Knowledge and Attitude towards plastic in influencing Reduce, Reuse, and Recycling Behaviour among Rural and Urban Households in India <i>Mrs. Vidya Pratap - India</i>	ID-016 A Comparative Life Cycle Assessment of Fresh Paper and Recycled Paper <i>Ritica Lacoul - Nepal</i>
10:45 - 11:00	: Tea Break	
11:00 - 13:00	: Parallel Technical Session III & IV (<i>CE Building-KUET</i>)	
	III. Session Chair: Dr. Kiyoshi Omine (<i>Associate Prof. Department of Civil Engineering, Kyushu University, Japan</i>)	IV. Session Chair: Prof. Dr. William Hogland (<i>The School of Natural Sciences, Linnaeus University, Sweden</i>)
<i>11:00 - 11:15</i>	ID-009 Inefficient or not Correctly Enforced? Municipal Solid Waste Management Policies and Problems in Naples <i>Stefania Romano - Hungary</i>	ID-013 Role of NGOs, CBOs and Private Sector in Solid Waste Management: Challenges and Opportunities- India Experience <i>Dr. Vijay Bansi Pagare - India</i>
<i>11:15 – 11:30</i>	ID-057 An Environmental Study on Dhanmondi & Ramna Lakes and Their Surroundings <i>Nusrat Rezwana Binte Razzak - Bangladesh</i>	ID-135 Medium Term Planning For Integrated Solid Waste Management Of Barisal City Corporation (2010-2020) <i>Md. Mizanur Rahman - Bangladesh</i>
<i>11:30 – 11:45</i>	ID-151 Assessing the Public-Private initiatives to improve the solid waste management scenario of Mymensingh	ID-050 Waste to Wealth: An Approach to Producing Activated Carbon from Rice Husk

	Pourashava <i>Md. Tauhidul Islam - Bangladesh</i>	<i>Md. Mahmudur Rahman - Bangladesh</i>
11:45 – 12:00	ID-115 Supporting Environmentally Sound Decisions in Bio-Waste Management with Life Cycle Thinking (LCT) and Life Cycle Assessment (LCA) <i>Simone Manfredi -Italy</i>	ID-035 Emerging Regional Ecology Centers in the Philippines: Experiences, Benefits and Lessons Learned from the Visayas <i>By Johannes Paul - Philippine</i>
12:00 – 12:15	ID-121 Practice of Used Tyre Resoling: Is it a solution or a Problem? <i>S. Kamaluddin – Bangladesh</i>	ID-140 Pollutants Removal from Leachate in Sanitary Landfill Lysimeter using Chemical Coagulants <i>Imran Rahaman - Bangladesh</i>
12:15 – 12:30	ID-053 Study of Scrap Waste In Kathmandu Valley of Nepal; A Quantitative And Economic Status <i>Kishor P. Luitel - Nepal</i>	ID-050 Waste to Wealth: An Approach to Producing Activated Carbon from Rice Husk <i>Md. Mahmudur Rahman - Bangladesh</i>
12:30 – 12:45	ID-164 Cathodic Reduction Of NO_3^- Using Cu And Ag Modified Noble Metal Electrodes Under Aerated Condition <i>M. A. Rashed - Bangladesh</i>	ID-034 Co-Processing of Wastes as Alternatives Resources in the Cement Industry <i>Jean-Pierre Degré - Switzerland</i>
12:45 – 13:00	ID-007 Improvisation of Vermicomposting Technology for Recycling Organic Wastes in Aquaculture <i>G. N. Chattopadhyay - India</i>	ID-165 Electrocatalytic Reduction of Nitrite (NO_2^-): Comparison Between Pt (Poly) Electrode And Activated Pt (Poly) Electrode <i>M. Saiful Alam - Bangladesh</i>
13:00 - 14:00	: Lunch	
14:00 - 15:30	: Parallel Technical Session V & VI (CE Building-KUET)	
	V. Session Chair: Prof. Dr. G. N. Chattopadhyay <i>(Institute of Agriculture, Visva-Bharati University, West Bengal, India)</i>	VI. Session Chair: Prof. Dr. Agamutu Pariatamby <i>(Institute of Biological Sciences, University of Malaya, Malaysia)</i>
14:00 - 14:15	ID-072 A Challenge Towards Sustainable Municipal Solid Waste Management: A Case Study on Nilphamari and Thakurgaon Municipalities in Bangladesh <i>Md. Ashrafuzzaman Pramanik - Bangladesh</i>	ID-014 Waste Management Activities in Developing Countries - Tackling Occupational Safety and Health Hazards at their Source <i>Daniela Bleck - Germany</i>
14:15 - 14:30	ID-158 Evaluation of Present Sewerage and Drainage System of Khulna University Campus and Proposing Alternative Plan <i>Miss Afroza Tonu - Bangladesh</i>	ID-075 A Way of Incorporating the Informal Solid Waste Managers into Formal Solid Waste Managers: A Case Study of Dhaka City <i>Mir Alimullah Faruque - Bangladesh</i>
14:30 - 14:45	ID-102 Results of a Pilot Survey to Develop a Clean City Ranking for Sri Lanka <i>S.N.Gamage - Sri Lanka</i>	ID-105 Comparative Analysis for the Production of FFAE Using WCB (<i>Rhizopus Oryzae</i>) and PE from Waste Cooking Oil <i>B. Bharathiraja - India</i>
14:45 - 15:00	ID-081 Enabling Solid Waste Management through Different Institutional Education in Bangladesh: An Analysis of Existing Curriculum <i>Dr. Ahmad Kamruzzaman Majumder - Bangladesh</i>	ID-087 Solid Waste Management Practice in Dhaka City <i>Anik Talukder - Bangladesh</i>
15:00 - 15:15	ID-096 Municipal Solid Waste Generation Rate: A Case Study in Khagrachari Municipality <i>Engr. Md. Mamunur Rashid - Bangladesh</i>	ID-097 Analysis of Municipal Solid Waste Influence on Geological Environment Using GIS Techniques: Case Study of Mirpur at Dhaka City of Bangladesh <i>Md. Abdullah-Al-Rashidi - Bangladesh</i>
15:15 - 15:30	ID-181 Prospective Resource Recovery from Organic Waste in Bangladesh: Compost and Bio-Electricity <i>M. A. Moqsud - Japan</i>	ID-091 Implementing Regulatory Framework is an Effective Tool for Effective Medical Waste Management and to Prevent Transmitted Diseases <i>A.S.M. Tariqur Rabby - Bangladesh</i>
15:30 - 15:45	: Tea Break	

15:45 - 17:30	: Parallel Technical Session VII & VIII (CE Building-KUET)	
	VII. Session Chair: Prof. Dr. Raffaello Cossu (IMAGE Department, University of Padova, Via Loredan 20, 35135 Padova, Italy)	VIII. Session Chair: Prof. Dr. Quazi H. Bari (Department of Civil Engineering, KUET, Bangladesh)
15:45 - 16:00	ID-078 Current Production and Practices of Municipal Solid Waste Management in Growing Urban Areas in North-East Africa <i>Tadesse Getahun - Ethiopia, Belgium</i>	ID-099 Solid Waste Management in Dhaka City: A Study on the Perspective of Environmental Planning and Management towards Clean Dhaka <i>Md. Moynul Ahsan - Bangladesh</i>
16:0 - 16:15	ID-079 A Study on the Recycling of Inorganic Waste of Khulna City <i>Nahid Morshed - Bangladesh</i>	ID-115 Supporting Environmentally Sound Decisions in Bio-Waste Management with Life Cycle Thinking (LCT) and Life Cycle Assessment (LCA) <i>Simone Manfredi -Italy</i>
16:15 - 16:30	ID-175 Biological Solid Waste Treatment <i>Sirajuddin M. Horaginamani - India</i>	ID-024 Characterizing the Solid Waste of Magura Municipality <i>F. Akter - Bangladesh</i>
16:30 - 16:45	ID-147 Socio-economic, Environmental and Health Sustainability of the Children Involved in NGO-CBO Operated Municipal Solid Waste Management System of Khulna City <i>Tusar Kanti Roy - Bangladesh</i>	ID-051 Metals Concentration in Leachate of Sanitary Landfill Lysimeter <i>Islam M. Rafizul - Bangladesh</i>
16:45 - 17:00	ID-060 Comparing Solid Waste Management System for Urban Slums: A Perspective on Khulna City <i>Raiyan Al-Mansur - Bangladesh</i>	ID-015 A review on Alternative Waste Treatment Technology for Energy Recovery in Australia <i>Sharmina Begum - Australia</i>
17:00 - 17:15	ID-107 Effective Waste Separation at Sources Reduces the Solid Waste Significantly Leading to Zero <i>Mohammad Aktarul Islam Chowdhury - Bangladesh</i>	ID-039 Vermicomposting Biotechnology as an Effective Solid Waste Management Strategy for Recycling Fly Ash from Thermal Power Plants <i>Dr. G. N. Chattopadhyay - India</i>
17:15 - 17:30	ID-010 Study on Energy from Waste <i>H. M. Arshad - Bangladesh</i>	ID-031 A Composite Photocatalyst for Methylene Blue Degradation under Visible Light Irradiation <i>Md. Saidul Islam - Bangladesh</i>
19:30 - 21:30	: Conference Dinner & Cultural Show (Hotel Castle Salam, Khulna)	

Day 3: 15 February 2011, TUESDAY

08:00 – onward	: Registration (Lawn of CE Building-KUET)	
09:00 - 10:45	: Parallel Technical Session IX & X (CE Building-KUET)	
	IX. Session Chair: Prof. Dr. Ghasem D. Najafpour (Editor in Chief, World Applied Sciences Journal & Head, Biotechnology Research Center, University of Technology, Iran)	X. Session Chair: Prof. Dr. Echard Kraft (Head, Professorship for Biotechnology in Waste Management, Bauhaus University Weimar, Germany and ORBIT Association)
09:00 - 09:15	ID-006 Customized Use of Vermicompost for Meeting Increased Nutrient Requirements of Modern Agriculture <i>Dr. G. N. Chattopadhyay - India</i>	ID-054 Reuse of Water Treatment Residue (sludge) as Building Materials <i>Salma A. Iqbal - Bangladesh</i>
09:15- 09:30	ID-118 Medical Waste Management: A Review Dhaka City Perspective <i>Pritum Kumar Saha - Bangladesh</i>	ID-082 Characterization and Management of Sludge in the Effluent Treatment Plant of Rahimafrooz Batteries Ltd., Gazipur, Bangladesh <i>Sk. Emadul Haque - Bangladesh</i>
09:30 - 09:45	ID-146 Who remains neglected? Community actions in residential waste management of Chittagong city	ID-091 Implementing Regulatory Framework is an Effective Tool for Effective Medical Waste

	<i>Md. Abdus Sabur - Bangladesh</i>	Management and to Prevent Transmitted Diseases <i>A.S.M. Tariqur Rabby - Bangladesh</i>
09:45 - 10:00	ID-163 Functions and process of Clinical Waste Management in Khulna City <i>Alamgir Ahmed -Bangladesh</i>	ID-114 A Study on Air Pollution Generation from Municipal Solid Waste Transport Sector of Tiruchirappalli City, South India <i>Sirajuddin.M.Horaginamani - India</i>
10:00 - 10:15	ID-168 Hazardous Wastes Concentrations in the Sediment and Water Sample of The Buriganga River <i>Provat Kumar Saha - Bangladesh</i>	ID-148 Implementation of Municipal Solid Waste Management Improvement Proposals for Khulna City in the Master Plan and Structure Plan of Khulna Development Authority (KDA) <i>Tusar Kanti Roy - Bangladesh</i>
10:15 – 10:30	ID-056 A Study on Solid Waste Management System in Mirpur (zone 7) Area of Dhaka City Corporation <i>Farhana Chowdhury - Bangladesh</i>	ID-088 Sustainable Waste Management Using Renewable Technology for Economic Empowerment of Rural Women in Bangladesh <i>Ruba Rummana - Bangladesh</i>
10:30 – 10:45	ID-098 <i>Solid Waste Management in Jahangirnagar Universtiy</i> <i>Md. Farhad Hossain - Bangladesh</i>	ID-124 Composting of Market Waste in Khulna City <i>Md. Selim Reza - Bangladesh</i>
10:45 - 11:00	: Tea Break	
11:00 - 13:00	: Parallel Technical Session XI & XII (CE Building-KUET)	
	XI. Session Chair: Sujata Gamage <i>(Lead Scientist, LIRNEAsia, Sri Lanka)</i>	XII. Session Chair: Nawa Raj Khatiwada <i>(Nepal Development Research Institute, Nepal)</i>
11:00 - 11:15	ID-012 Use of HELP Model for Estimation of Leachate from a Pilot Scale Lysimeter <i>William Hogland - Sweden</i>	ID-023 Kinetics Model for the Biodegradation of Phenol in an Anaerobic Batch Reactor Using Mixed Culture <i>Ghasem D. Najafpour - Iran</i>
11:15 – 11:30	ID-033 Landfill Cover System Modelling for Leachate Management <i>Agamuthu, P - Malaysia</i>	ID-027 Biogas Technology towards Sustainable Energy Use at Poultry Farm in Bangladesh <i>Ruba Rummana - Bangladesh</i>
11:30 – 11:45	ID-069 Application of Fenton Process in Treating Landfill Leachate <i>Kashif Mahmud - Bangladesh</i>	ID-052 Black Soldier Fly Larvae for Organic Waste Treatment – Prospects and Constraints <i>Stefan Diener - Switzerland</i>
11:45 – 12:00	ID-089 Feasibility of Electricity Production from Landfill Gas in Developing Countries: Case Study of Thailand <i>Boonma Panpradist - Thailand</i>	ID-101 Valorization of Solid Tire Wastes Available in Bangladesh by Thermal Treatment <i>M. R. Islam - Bangladesh</i>
12:00 – 12:15	ID-150 Procedure supporting creation of landfill concepts in low and middle income countries <i>G. Hädrich - Germany</i>	ID-131 Treatment of grey water using hydrocarbon producing green algae <i>Botryococcus braunii</i> <i>R. Praveen Kumar - India</i>
12:15 – 12:30	ID-110 Experiences of Design and Implementation of Solid Waste Transfer Stations in Hargeisa, Somaliland: Successes and Constraints <i>Veronica Di Bella - Italy</i>	ID-123 Characterization of the Waste Management System in Addis Ababa, Ethiopia <i>Nicolás Escalante - Germany</i>
12:30 – 12:45	ID-176 Monitoring of Leachate Characteristics of Sanitary Landfill Lysimeter under Tropical Condition <i>Islam M. Rafizul - Bangladesh</i>	ID-021 Photocatalytic Degradation Studies of Methylene Blue By TiO ₂ , Zinc Doped TiO ₂ and Born-Zinc Doped TiO ₂ Nanoparticles <i>Mohammad Afsar Uddin - Bangladesh</i>
12:45 – 13:00	ID-141 Safe Solid Waste Manangement Poresses <i>Engr. Md. Imam Zafor – Bangladesh</i>	ID-112 Solid Waste Recycling in Rajshahi City <i>M. Ehsanul Haque - Bangladesh</i>
13:00 - 14:00	: Lunch	

14:00 - 15:45	: Parallel Technical Session XIII & XIV (CE Building-KUET)	
	XIII. Session Chair: Stefania Romano <i>(Head, Italian Trust Fund, Regional Environmental Center, Hungary)</i>	XIV. Session Chair: Dr. Vidya Pratap <i>(Director, US-India Educational Foundation, Manipal University, India)</i>
14:00 - 14:15	ID-154 Usability of biological waste for anaerobic digestion – characterization methods <i>Dipl.-Ing. Laura Weitze – Germany</i>	ID-067 The Solid Waste and Public Cleansing Management Act 2007: Impact on Waste Recycling Issues in Malaysia <i>Fauziah S.H – Malaysia</i>
14:15 - 14:30	ID-062 Biodiesel from Lignocellulosic Biomass- Prospect and Challenges <i>By Abu Yousuf – Bangladesh</i>	ID-076 Analysis of the Recycling of Plastic Waste: A Case Study of Islambagh Area <i>Adiba Jamal Esa –Bangladesh</i>
14:30 - 14:45	ID-028 Municipal Solid Waste Management Sector in Sri Lanka: Is Composting of Municipal Solid Waste a Suitable Option? <i>Nilanthi Janaki G. Jayaweera Bandara – Sri Lanka</i>	ID-017 Municipal Solid Waste and Bio-gas Recovery from Anaerobic Digestion <i>Tripti Kharel – Nepal</i>
14:45 - 15:00	ID-042 Examination of Household Composting Technologies for Sub Urban Areas of Bangladesh <i>Md. Saiful Islam - Bangladesh</i>	ID-113 Production of Briquettes from Biomass and Urban Wastes Using a Household Briquette Molder <i>Aries Roda D. Romallosa – Philippine</i>
15:00 - 15:15	ID-093 Recycling the Decisive Way for Sustainable Waste Management <i>Md. Sharoar Hossain Apo – Bangladesh</i>	ID-178 An Assessment of Engineering Properties of Crushed Hardrock Dust of Maddhyapara Granite Mine, Dinajpur and Prospect of Its Utilization as Fine Aggregate in Concrete <i>M. Farhad Howladar – Bangladesh</i>
15:15 - 15:30	ID-062 Biodiesel from Lignocellulosic Biomass- Prospect and Challenges <i>Abu Yousuf – Bangladesh</i>	ID-162 Solid Waste Management Information System – Performance Optimization Tools of Solid Waste Management System <i>Sivakumaran Sithamparanathan – Sri Lanka</i>
15:30 - 15:45	ID-157 Proposing a Comprehensive Solid Waste Management Plan for Khulna University Campus <i>Rubaiya Bari - Bangladesh</i>	ID-127 Study on Solid Waste Recycling in Jessore <i>Kumar Fagun Mallick - Bangladesh</i>
15:45 - 16:00	: Tea Break	
16:00 - 17:00	: Closing Session	