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বাংলাদেশ
বিশ্ববিদ্যালয় মঞ্জুরী কমিশন

WasteSafe 2021
7th International Conference
**Integrated Solid Waste & Faecal Sludge Management:
Blue Appropriate Social Oriented Solutions**
27-28 February 2021, Khulna, Bangladesh

Virtual Platform

Conference Program

27 February 2021, SATURDAY: Conference Day I

10:00 - Onward : Online Registration

12:00 - 13:00 : Inauguration of the Conference at Virtual Platform

<https://bdren.zoom.us/j/61359296930>
ID: 61359296930

12:00 - 13:00
Bangladesh Time
(GMT+6)

• **Welcome Address: Chair, WasteSafe 2021**

Prof. Muhammed Alamgir, KUET, Khulna & Member, UGC, Bangladesh

• **Addresses by the Co-Organizers, WasteSafe 2021**

Prof. Maria Cristina Lavagnolo, Padova University, Italy

Prof. Eckhard Kraft, Bauhaus University Weimar, Germany

• **Theme Paper, WasteSafe 2021**

Prof. Raffaello Cossu, Former Professor of Padova University, Italy

"Technical evolution of landfilling and environmental role in Circular Economy"

• **Special Guest's Speech**

Dr. Md. Khairul Islam, Regional Director, South Asia Region, WaterAid

• **Address by the Chief Guest:**

Mr. Talukder Abdul Khaleque, Hon'ble Mayor, Khulna City Corporation

• **Address by the Chief Patron:**

Prof. Quazi Sazzad Hossain, Vice-Chancellor, KUET, Bangladesh

End of the Inauguration Session

13:00-13:15: Session Break

WasteSafe 2021: Key Note Paper Session I: 13:15-13:45 Bangladesh Time (GMT+6)

27 February 2021, SATURDAY

<https://bdren.zoom.us/j/61359296930>
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Chair of the Key Note Session

Prof. Raffaello Cossu, Italy

**13:15 -
13:45**
Bangladesh
Time
(GMT+6)

• **Key Note Paper 1**

Paper Title: Innovative Hybrid Bio Power Plant Using Excess Heat for Thermal Conditioning of Contaminated Fermentation Residues from the Biogas Process

Prof. Dr.-Ing. Eckhard Kraft

Germany

13:45-14:30: Session Break

WasteSafe 2021: Parallel Technical Session: 14:30-16:15 : Bangladesh Time (GMT+6)
27 February 2021, SATURDAY

| | Technical Session A1 | Technical Session B1 |
|-------------|--|--|
| | https://bdren.zoom.us/j/61359296930 ID: 61359296930 | https://bdren.zoom.us/s/64610062787 ID: 64610062787 |
| | Chair of the Session: <i>Prof. Bim Prasad Shrestha</i> Kathmandu University, Nepal | Chair of the Session: <i>Dr. Abdullah Al-Muyeed</i> Chief Operating Officer of CWIS-FSM Support Cell, DPHE, Bangladesh |
| 14:30-14:45 | Paper ID: 004 Waste: current management practices and solutions in Faridpur City, Bangladesh <i>Syed Arman Ali, Md. Shahinur Islam, Md. Shahrukh Hassan and Engr. Raihan Khan Opu</i> Bangladesh | Paper ID: 002 Solid radioactive wastes management & safety systems of atomic energy centre Dhaka, Bangladesh <i>Mohammad Sohelur Rahman, Mia Mohammad Mahfuz Siraz, Subrata Banik, Shikha Pervin and Selina Yeasmin</i> Bangladesh |
| 14:45-15:00 | Paper ID: 037 Material Recycling for Teaching Computer Science Through Unplugged Activities <i>Bibhuti Ojha, Nawa Raj Khatiwada, Anila Jha and Ramesh Khanal</i> Nepal | Paper ID: 006 Sustainable Management of Faecal Sludge By Using Briquetting Technology <i>S. M. Sagor and Quazi Hamidul Bari</i> Bangladesh |
| 15:00-15:15 | Paper ID: 005 The Status Quo of Fecal Sludge Treatment Plant at Khulna and It's Future Prospective about Biomass Energy (Briquette) <i>Asma Ul Hosna and Kh. Mahub Hassan</i> Bangladesh | Paper ID: 042 Assessment of Performance of Lime Stabilization Pond for Wastewater Treatment in Rohingya Camp, Bangladesh <i>Mehedi Hassa Mishuk, Janeefer Flower Janee, S. M. Tariqul Islam and Muhammed Alamgir</i> Bangladesh |
| 15:15-15:30 | Paper ID: 008 A tentative scenario of solid waste management in urban and peri-urban area of Khulna district through the resource reuse technique <i>Sharfan Upaul, SK Farjana Faruk Nitu and Arpita Bakshi</i> Bangladesh | Paper ID: 010 Rainwater harvesting system to mitigate water logging, a feasibility study on Chawkbazar, Chittagong <i>M.T.H.Tuhin, M.A.Tajik, Sudipta Sarker, M.M.Haque and A.Hoque</i> Bangladesh |
| 15:30-15:45 | Paper ID: 009 Stormwater and wastewater management: a study on Mohesh khal, Chittagong <i>M.T.H.Tuhin, M.A.Tajik, M.K.Mahmud, R.Ahmad and M.H.Ali</i> Bangladesh | Paper ID: 011 Establishing Eco-friendly waste And Resource Management plant in Kushtia, Bangladesh <i>Afia Anjum Ulka Mony, Md. Rashedur Rahman, Md Abid Hossain and Abu Raihan</i> Bangladesh |
| 15:45-16:00 | Paper ID: 019 Application of recycled plastic waste as coarse aggregate in concrete <i>Sk. Md. Imdadul Islam and Habibur Rahman Khan</i> Bangladesh | Paper ID: 017 Treatment of composite tannery wastewater using <i>Aloe barbadensis</i> as natural coagulant <i>Md. Enamu Hasan Zahin, Md. Lutful Hossain Pulok, Md. Abul Hashem</i> Bangladesh |
| 16:00-16:15 | | Paper ID: 044 Citywide Inclusive Sanitation: evolving opportunity for paurashavas/city corporations of Bangladesh to reach SDG 6.2 <i>Abdullah Al-Muyeed</i> Bangladesh |

16:15 - 16:30 : Session Break

WasteSafe 2021: Key Note Paper Session II: 16:30–17:30 Bangladesh Time (GMT+6)

27 February 2021, SATURDAY

<https://bdren.zoom.us/j/61359296930>

ID: 61359296930

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| | Chair of the Key Note Session <i>Dr. Nawraj Khatiwada, Nepal</i> |
| 16:30 – 17:00 Bangladesh Time (GMT+6) | <ul style="list-style-type: none"> • Key Note Paper 2 Paper Title: Solid Waste Management Practice in Khulna, Bangladesh <i>Prof. Dr. Q.H. Bari</i> Bangladesh |
| 17:00 – 17:30 Bangladesh Time (GMT+6) | <ul style="list-style-type: none"> • Key Note Paper 3 Paper Title: Waste management in Developing Countries: Problems, Success & Failure <i>Prof. Dr. M. C. Lavagnolo</i> Italy |
| 17:30: End of Day I (27February 2021, SATURDAY) | |

WasteSafe 202128 February 2021, SUNDAY: **Conference Day II****WasteSafe 2021: Parallel Technical Session: 10:00-11:30** : Bangladesh Time (GMT+6)

28 February 2021, SUNDAY

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| | Session A2 https://bdren.zoom.us/j/61359296930 ID: 61359296930 |
| | Chair of the Session: <i>Prof. Dr. M. Tanvir Ahmed</i> Department of Civil Engineering, BUET, Bangladesh |
| 10:00- 10:15 | Paper ID: 015 An approach of sustainable municipal solid waste management: A Study on Barishal city corporation <i>Abu Raihan, Md Abid Hossain, Md. Rashedur Rahman and Afia Anjum Ulka Mony</i> Bangladesh |
| 10:15- 10:30 | Paper ID: 041 Solid Waste Management During Covid-19: A Case Study On Rohingya Refugee Camp In Bangladesh <i>Nur-E-Jannat Pollen, Rukaiya Siddika, Shakina Afroz Bithi and S. M. Tariqul Islam</i> Bangladesh |
| 10:30- 10:45 | Paper ID: 018 Cyclone storm surge based future risk projection and management at Koyra, Khulna using GIS & remote sensing <i>Md. Abdul Momen, Husain Md. Sajib, Dr. Md. Mafizur Rahman</i> Bangladesh |
| 09:45- 11:00 | Paper ID: 040 Faecal Sludge Management in Mountain Region of Nepal: Elevation Ranging Up to 4650 <i>Suman Dhun Shrestha, Bim Prasad Shrestha and Nischal Khadka</i> Nepal |
| 11:00- 11:15 | Paper ID: 023 Environmental Sustainability of Compressed Stabilized Earth Block (CSEB), as an Alternate Construction Material of FCK Bricks <i>Engr. Raphael Tripura, Dr. Md. Shafiqul Islam, Md. Ashrafuddoula Dipu, Md. Abdullah Ibn Faruk</i> Bangladesh |
| 11:15- 11:30 | Paper ID: 021 Occupational Exposure in Central Radioactive Waste Processing and Storage Facility in Bangladesh using Thermoluminescent Dosimeter in between 2009 and 2018 <i>Subrata Banik, M.M. Mahfuz Siraz, Shikha Pervin, Mohammad Sohelur Rahman, and Selina Yeasmin</i> Bangladesh |

11:30 – 12:00 : BREAK

WasteSafe 2021: Parallel Technical Session: 12:00-13:30: Bangladesh Time (GMT+6)
28 February 2021, SUNDAY

Session A3

<https://bdren.zoom.us/j/61359296930>

ID: 61359296930

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| | <p>Chair of the Session Prof. Dr. Kh. Mahbub Hassan KUET, Khulna, Bangladesh</p> |
| 12:00-12:15 | <p>Paper ID: 025 A Spatio Temporal Analysis of Land Surface Temperature to Monitor Landfill Sites Using Remote Sensing Techniques <i>Md. Salman Bashit, Torit Chakraborty and Md. Shaharier Alam</i> Bangladesh</p> |
| 12:15-12:30 | <p>Paper ID: 034 Sanitation Safety Scenario in an Urban Slum of Khulna City <i>Nazifa Zia and Khondoker Mahbub Hassan</i> Bangladesh</p> |
| 12:30-12:45 | <p>Paper ID: 027 Effects of Microalgae-Faecal Sludge Ratios on Microalgal growth in Anaerobic Treated Wastewater <i>Md. Bashirul Islam, Sadib Bin Kabir, Md Khalekuzzaman and Md. Raju Ahammed</i> Bangladesh</p> |
| 12:45-13:00 | <p>Paper ID: 029 Evaluation of Sustainable Recycled Aggregate Concrete Quality Using Non-Destructive Testing Technique <i>Shuvo Dip Datta, Md. Habibur Rahman Sobuz and Shoaib Islam</i> Bangladesh</p> |
| 13:00-13:15 | <p>Paper ID: 038 Solid Waste Management: What Does A High School Curriculum Cover? <i>Ramesh Khanal, Anila Jha, Nawa Raj Khatiwada and Bibhuti Ojha</i> Nepal</p> |
| 13:15-13:30 | <p>Paper ID: 031 Challenges to Manage The FSM in an Emergency Human Settlement, Rohingya Camp, Ukhia, Cox's Bazar <i>Md. Abul Hasan Shovon, S.M. Shaik-UI-Karim and Dr. Muhammad Alamgir</i> Bangladesh</p> |

13:30-14:30: Break

WasteSafe 2021: Key Note paper Session III: 14:30 – 15:00 Bangladesh Time (GMT+6)
28 February 2021, SUNDAY

<https://bdren.zoom.us/j/61359296930>

ID: 61359296930

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| | <p>Chair of the Key Note Paper Session III Prof. Eckhard Kraft Bauhaus University Weimar, Germany</p> |
| <p>14:30 – 15:00 Bangladesh Time (GMT+6)</p> | <p>• Key Note Paper 4 Paper Title: Circular Economy Implementation in Asia and the Practice <i>Prof. S.K. Ghosh</i> India</p> |

WasteSafe 2021: Parallel Technical Session: 15:30-16:45: Bangladesh Time (GMT+6)**28 February 2021, SUNDAY**

| | Session A4 | Session B4 |
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| | https://bdren.zoom.us/j/61359296930 ID: 61359296930 | https://bdren.zoom.us/s/64610062787 ID: 64610062787 |
| | Chair of the Session: <i>Prof. Dr. Md. Rafizul Islam</i> KUET, Khulna, Bangladesh | Chair of the Session: <i>Dr. Md. Khalekuzzaman</i> KUET, Khulna, Bangladesh |
| 15:30-15:45 | Paper ID: 030 A Study on Recycling Used Lead-Acid Batteries (ULABs) in Bangladesh <i>Md. Bashirul Islam, Md Khalekuzzaman, Sadib Bin Kabir and Md. Masud Rana</i> Bangladesh | Paper ID: 035 Citizen Participation in Household Solid Waste Management in Urban Slum of Khulna City <i>Mili Mondal, Sheikh Md. Mursalin Mamun</i> Bangladesh |
| 15:45-16:00 | Paper ID: 039 Management of Floral Wastes of Flower Shops in Khulna City <i>Tusar Kanti Roy, Md. Rashid Sahriar, Tanmoy Mazumder and Sobuj Roy</i> Bangladesh | Paper ID: 036 Sustainable Solid Waste Collection and Disposal Management in Rajshahi City Corporation (RCC) <i>Shahadat Hossain and Reetika Ali</i> Bangladesh |
| 16:00-16:15 | Paper ID: 032 Analysis of Industrial Solid Waste Generation Rate With Reference of RMG Industry in Bangladesh <i>S Shanjoy Chowdhury and Dr. Md. Niamul Bari</i> Bangladesh | Paper ID: 043 Existing Faecal Sludge Management System: A case Study in Rohingya Refugee Camp, Cox's Bazar <i>Shakina Afroz Bithi, Nur-E-Jannat Pollen and S. M. Tariqul Islam</i> Bangladesh |
| 16:15-16:30 | Paper ID: 033 Evaluation of Faecal Sludge Treatment Plant in Kushtia Municipality and treatment efficiency of filtration system <i>Noman Al- Hafiz, S.M. Tariqul Islam and Muhammed Alamgir</i> Bangladesh | Paper ID: 003 A case study of electricity generation from municipal solid waste in Rajshahi City Corporation <i>Nazmun Naher Chaitee, Abdur Rahman and Nur Ahmed Al Muktadir</i> Bangladesh |
| 16:30-16:45 | Paper ID: 020 Sustainable advancement of pavement serviceability using recycled sugarcane bagasse ash waste to aggrandize subgrade soil <i>Sk. Md. Imdadul Islam and Md. Shakhawath Alam</i> Bangladesh | Paper ID: 016 Coagulation-adsorption process for dye removal from the tannery wastewater <i>Moumita Rani Das, Mirza ZarinTasnim and Md. Abul Hashem</i> Bangladesh |

16:45 - 17:00: Session Break**Closing Session: 17:00 - 18:00: Bangladesh Time (GMT+6)****28 February 2021, SUNDAY**<https://bdren.zoom.us/j/61359296930>

ID: 61359296930

“Feedback and Way Forward”**“Declaration of the Date of WasteSafe 2023”**

- **Chair Persons of the Conference**
(Prof. M. Alamgir, Prof. E. Kraft and Prof. M.C. Lavagnolo)
- **Advisors of the Conference**
(Prof. R. Cossu)
- **All the Participants**

28.02.2021 SUNDAY 18:00 BST**END of the Conference**