



Webinar on

Challenge of Reducing Food Loss and Waste to Improve Food Security in the Global South

**Monday, 30th November 2020
at 03:00 p.m. (GMT +5)**

Growing number of countries are calling for greater attention to address the challenge of reducing food loss and waste. According to the United Nations around a third of the world's food is lost or wasted every year. In some countries almost 40 percent of the food is lost or wasted. Food loss and waste is responsible for about 7% of global greenhouse gas (GHG) emissions and nearly 30% of the world's agricultural land currently occupied to produce food that is ultimately never consumed.

There is increasing realization of the importance of the issue of food loss and waste as it is incorporated in the 2030 Agenda for Sustainable Development. Specifically, Target 12.3 of the Sustainable Development Goals (SDGs) calls for halving of per capita global food waste at the retail and consumer levels and the reduction of food losses by 2030.

For effective action there is need to better understand how much food is lost or wasted and where and why this happens. We need to know where in the food supply chain losses and waste are concentrated and the reasons why they occur. This would help in improving the food security situation, particularly of vulnerable groups, and reducing the environmental footprint associated with food that is lost or wasted.

Recognizing the fundamental role that sustainable food production plays in promoting food security COMSATS Centre for Climate and Sustainability (CCCS) in partnership with the Uganda National Council for Science and Technology (UNCST) is holding a Webinar on 30 November 2020 on the problem of food loss and waste and ways that will make a difference in terms of improved food security and environmental sustainability in the spirit of the 2030 Agenda.



Meeting Link:

<https://us02web.zoom.us/j/86864688288?pwd=VGIZemtyMThWb2taT095V1F6M0h1Zz09>

Meeting ID: 868 6468 8288 **Passcode:** 675195

SPEAKERS



Prof. Dawei Zhang
TIB, China



Prof. Hesham Ali El Enshasy
UTM, Malaysia



Dr. Francis Osei Amoako-Andoh
CSIR, Ghana



Ms. Leslie Hoo Fung
ICENS, Jamaica



Dr. Azhar Rasheed
UoH, Pakistan



Dr. Ilmi Hewajulige
ITI, Sri Lanka.



Dr. Ephraim Nuwamanya
Makerere University, Uganda

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PROGRAMME

Prof. Dawei Zhang

Prof. Dawei Zhang received his PhD from Beijing University of Chemical Technology in 2007. After performing his postdoctoral research at University of Wisconsin Milwaukee and California Institute of Technology from 2007 to 2012, he joined Tianjin Institute of Industrial Biotechnology (TIB), Chinese Academy of Sciences. He is currently the leader of Protein Expression and Microbial Metabolic Engineering Group. His group integrates genetic engineering, synthetic biology and systematic biology tools to (1) construct microbial cell factory to produce vitamins, amino acids and other valuable natural products; (2) construct and optimize the protein secretion pathway in Bacillus species and Yeast for industrial enzyme production.

Prof. Hesham Ali El Enshasy

Prof. Hesham Ali El Enshasy is the Director of Institute of Bioproduct Development (IBD), and professor in bioprocess engineering, school of Chemical and Energy Engineering, Universiti Teknologi Malaysia (UTM), and the current co-Chair for Food, Pharmaceutical & Bio-Engineering Division, Division 15A (Food), American Institute of Chemical Engineering (AIChE). Prof. El Enshasy received his B.Sc. and M.Sc. Microbiology (Ain Shams University, Egypt), Dr. rer. Nat. Industrial Biotechnology (TU Braunschweig, Germany 1998), M.Sc. Technology Management (UTM, Malaysia). He has 7 technology patents/trade secrets and more than 250 publications in peer reviewed international journals, book chapters, and books.

Dr. Francis Osei Amoako-Andoh

Dr. Francis Osei Amoako-Andoh is a Senior Research Scientist with the Crops Research Institute of the Center for Scientific and Industrial Research (CSIR) of Ghana. Francis holds a Doctor of Bioscience Engineering degree from the KU Leuven (formerly Katholieke Universiteit of Leuven), Belgium. He also holds a Master of Science degree in Chemistry, with a major in Biochemistry and Chemical Enzymology, from the Donetsk State University, Ukraine. Research interests of Francis include harnessing agricultural biodiversity and modern biotechnology applications to enhance micronutrients content in food crops.

Ms. Leslie Hoo Fung

Ms. Leslie Hoo Fung is a Research Scientist at the International Centre for Environmental and Nuclear Sciences at the University of the West Indies with over 20 years' experience. Her research interests include food safety and security, trace metals in human health and agriculture, and monitoring of

environmental pollutants. Miss Hoo Fung holds a Bachelor of Science in Pure and Applied Chemistry from the University of the West Indies and a Master of Science in Sustainable Development (Rural Development and Change) from the University of London.

Dr. Azhar Rasheed

Dr. Azhar Rasheed, serving as chairperson, Department of Environmental Sciences, University of Haripur, having 20 years' experience in diverse areas of Food and Environmental Sciences. Have been Lead for Food and Environmental Protection Group at Nuclear Institute for Food and Agriculture (NIFA) Peshawar. Major areas of research include food safety, environmental monitoring and toxicology, bioremediation, food waste and impact on environment, method development and environmental econometrics. He published research outcomes in the top impact factor journal of food and environmental sciences.

Dr. Ilmi Hewajulige

Dr. Ilmi Hewajulige is the Additional Director General, R & D of the Industrial Technology Institute (ITI), Sri Lanka. She graduated from the University of Peradeniya, with a BSc. (Agriculture) Hon. and obtained her M.Phil and PhD degrees on Postharvest Technology from the University of Colombo. She was a post-doctoral research fellow at the National Food Research Institute, Japan and a research fellow at the University of California Davis, USA. Dr. Hewajulige has 25 years research experience on postharvest management, food technology and food safety management and has been actively involved as a Principal Investigator or Co Investigator in more than 35 nationally and internationally funded R&D projects.

Dr. Ephraim Nuwamanya

Dr. Ephraim Nuwamanya is a lecturer of Plant physiology and Biochemistry at Makerere University in Uganda and a senior researcher fellow at National Agricultural Research Organization. His research work involves the conversion of food and agricultural waste into bio-products including bio-ethanol from crop based waste, bio-plastics from starch and oil based plasticizers, biodiesel from used vegetable oil and the conversion of food based waste material into feed. In addition, Ephraim has conducted extensive inquiries into crop compositional analyses and industrial processes such as hydrolytic procedures for industrial bio-ethanol, development of heterogeneous catalysts for biodiesel production and starch modification procedures.



Moderator

Prof. Dr. Anwaar ul Hassan Gillani
Vice Chancellor, UoH, Pakistan



Ambassador Shahid Kamal
Head CCCS

3:00-3:05 - Welcome Remarks

Ambassador Shahid Kamal, Head CCCS

Technical Session

03:05-03:40 (7 min for each speaker)

Prof. Dawei Zhang, Tianjin Institute of Industrial Biotechnology (TIB), China

Dr. Francis Osei Amoako-Andoh, Senior Research Scientist, Crops Research Institute of the Center for Scientific and Industrial Research (CSIR) of Ghana.

Ms. Leslie Hoo Fung, Research Scientist International Centre for Environmental and Nuclear Sciences (ICENS) University of the West Indies

Prof. Hesham Ali El Enshasy, Director, Institute of Bioproduct Development (IBD), and Professor in Bioprocess Engineering, School of Chemical and Energy Engineering, Universiti Teknologi Malaysia (UTM), Malaysia

Dr. Azhar Rasheed, Chairperson, Department of Environmental Sciences University of Haripur, Pakistan

Dr. Ilmi Hewajulige, Additional Director General, R & D of the Industrial Technology Institute (ITI), Sri Lanka

Dr. Ephraim Nuwamanya, Lecturer, Makerere University, Uganda

03:40-04:15 - Panel Discussion

04:15-04:25 - Q&A

4:25-4:30 - Closing Remarks - Dr. Martin Ongol, Deputy Executive Secretary, Uganda National Council for Science and Technology (UNCST), Uganda