



E-WORKSHOP ON ZERO WASTE

10th April 2025 09:00 – 16:45 (TRT) UTC+3

AGENDA

(Online Meeting)

TÜBİTAK Representative (10 Min) Ambasador Dr. Muhammad Nafees Zakaria, Executive Director COMSATS (10 Min) 09:20 - 09:30 TÜBİTAK MAM Introduction Presentation (10 Min) Session 1: Waste-To-Resource Technologies (Moderator: Dr. Samet Feyyaz HAMAMCI) Presentation Title Speaker 09:30 - 09:50 Microplastic Pollution in Polor Regions and Oceans Prof. Dr. Burcu ÖZSOY, TÜBİTAK MA. 09:50 - 10:10 Plant-Based Proteins from Agro-Food Industry Waste Dr. Emine Aytunga ARIK KİBAR, Food Technologies Research Group 10:10 - 10:30 Valorization of Agricultural Waste for Economic and Environmental Benefits Dr. Emine Aytunga ARIK KİBAR, Food Technologies Research Group 10:30 - 10:45 Q	1	(Online Meeting)		
Ambassador Dr. Muhammad Nafees Zakaria, Executive Director COMSATS (10 Min) 99:20 - 09:30 1 TÜBİTAK MAM Introduction Presentation (10 Min) Session 1: Waste-To-Resource Technologies (Moderator: Dr. Samet Feyyaz HAMAMCI) Presentation Title 99:30 - 09:50 Microplastic Pollution in Polar Regions and Oceans Prof. Dr. Burcu ÖzSOY, TÜBİTAK MAN. 99:50 - 10:10 Plant-Based Proteins from Agro-Food Industry Waste Technologies Research Group 10:10 - 10:30 Valoization of Agricultural Waste for Economic and Environmental Benefits 10:30 - 10:45 Q&A Session (15 Min) 10:45 - 11:20 Short Break (15 Min) 11:20 - 11:40 Energy and Row Material Recovery from WWT Sludge as a Conceptual of Zero Waste 11:20 - 11:40 Turning Waste into Wealth: Pyrolysis for Sustainable Circular Value Chains in Agriculture 11:20 - 12:15 Q&A Session (15 Min) 12:30 - 12:50 Biomass to H2: Hydrogen Production via Biomass Gasification 12:50 - 13:10 Obtaining High Purity Methane Gas from Biogas with a MOF-Based Adsorbent System 13:10 - 14:10 Lunch Break (1 hour) Session 2: Waste Management And Recycling: Focus on Refining of Used Oils 14:30 - 14:50 Non-Contact Measurement Methods of the Sludge for the Purpose of Dewatering Process Control 14:50 - 15:10 Short Break (15 Min) 15:40 - 16:00 Recycling of Critical Raw Materials in Hydrogen Production Processes: The Boron Example The Use of Molecular Materials in Hydrogen Production Processes: The Boron Example The Use of Molecular Materials in Hydrogen Production Processes: The Boron Example The Use of Molecular Methods to Monitor Changes in Biotechnologies Research and Technologies Research Biotechnologies 09:00 - 09:20	Opening Speech			
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Session 2: Waste Management And Recycling (Moderator: Dr. Samet Feyyaz HAMAMCI) 14:10 - 14:30 Sustainable Waste Management and Recycling: Focus on Refining of Used Oils 14:30 - 14:50 Non-Contact Measurement Methods of the Sludge for the Purpose of Dewatering Process Control Water and Wastewater Treatment and Recovery of Valuable Chemicals with Membrane Technologies 15:10 - 15:25 Q&A Session (15 Min) 15:25 - 15:40 Recycling of Critical Raw Materials in Hydrogen Production Processes: The Boron Example The Use of Molecular Methods to Monitor Changes in Biodiversity in Environmentally Hot Spot Areas and to Develop Biotechnologies Research Dr. Volkan PELİTLİ, Resource Efficien Energy Research Group & Chemical Strict on Processes: The Boron Example Dr. Volkan PELİTLİ, Resource Efficien Energy Research Group & Chemical Strict on Processes Control Dr. Selda MURAT HOCAOĞL Research Group Dr. Mehmet DİLAVER, Climate Research Group Dr. Mehmet DİLAVER, Climate Research Group Dr. Emin OKUMUŞ, Dr. Çiğdem KARA Hydrogen and Fuel Cell Technologies Group Dr. Emin OKUMUŞ, Dr. Çiğdem KARA Hydrogen and Fuel Cell Technologies Group Dr. Gülsima Dilek USLUER GÜÇLÜ, N. Research and Technologies Research Group Research and Technologies Research Group	12:50 - 13:10		Senem SEZER, CBRN Defence Technologies Research Group	
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14:10 - 14:30 Refining of Used Oils Non-Contact Measurement Methods of the Sludge for the Purpose of Dewatering Process Control 14:30 - 15:10 Water and Wastewater Treatment and Recovery of Valuable Chemicals with Membrane Technologies 15:10 - 15:25 Q&A Session (15 Min) 15:40 - 16:00 Recycling of Critical Raw Materials in Hydrogen Production Processes: The Boron Example The Use of Molecular Methods to Monitor Changes in Biodiversity in Environmentally Hot Spot Areas and to Develop Biotechnologies Research Group & Energy Research Group & Chemical Technologies Research Group & Chemical Technologies Research Group & Chemical Technologies Process on Water Management Research Group & Chemical Technologies Process on Water Management Research Group & Chemical Technologies Process on Water Management Research Group & Chemical Technologies Process on Water Management Research Group & Chemical Technologies Process on Water Management Research Group & Chemical Technologies Process on Water Management Research Group & Chemical Technologies Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemical Multiple Process on Water Management Research Group & Chemica		Session 2: Waste Management And Recycling (Moderator: Dr. Samet Feyyaz HAMAMCI)		
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16:00 - 16:20 Biodiversity in Environmentally Hot Spot Areas and to Develop Biotechnological Solutions Dr. Guisma Dilek OSLOER GUÇLÜ, N Research and Technologies Research	15:40 - 16:00		Dr. Emin OKUMUŞ, Dr. Çiğdem KARADAĞ, Hydrogen and Fuel Cell Technologies Research Group	
	16:00 - 16:20	Biodiversity in Environmentally Hot Spot Areas and to Develop	Dr. Gülsima Dilek USLUER GÜÇLÜ, Marine Research and Technologies Research Group	
16:20 - 16:40Identification and Reporting of Beach Litter from Drone Images Using AIDr. Cihangir AYDÖNER, Marine Reser Technologies Research Group	16:20 - 16:40	Identification and Reporting of Beach Litter from Drone Images Using AI	Dr. Cihangir AYDÖNER, Marine Research and Technologies Research Group	
16:40 - 16:45 Closing Remarks (5 min)	16:40 - 16:45	Closing Remarks (5 min)		