



5th EURASIA WASTE MANAGEMENT SYMPOSIUM

www.eurasiasyposium.com

26.10.2020 MONDAY

HALL 1

[CLICK TO ATTEND](#)

Opening Program

Opening Ceremony

	Prof. Dr. Ahmet DEMİR (Chairman of the 5th EurAsia Waste Management Symposium)
	Fatih HOŞOĞLU (Deputy General Manager of ISTAC Inc.)
09:30 - 10:00	Recep AKDENİZ (Deputy General Manager of General Directorate of Environmental Management, Ministry of Environment and Urbanization)
	Prof. Dr. Tamer YILMAZ (Rector of Yıldız Technical University)
	Prof. Dr. Lütfi AKÇA (Member of the Local Government Policies of the Presidential Council of the Republic of Turkey)

Opening Panel : Problems Encountered in Current Waste Management Applications and Solution Offers

Opening Panel : Moderator: Prof. Dr. Lütfi AKÇA

10:00	Sadiye BİLGİÇ KARABULUT (Head of Zero Waste and Waste Treatment Department, Ministry of Environment and Urbanization)
	Prof. Dr. Mustafa OZTURK (Former Deputy, Former Undersecretary of the Ministry of Environment and Urbanisation)
10:30 - 12:30	Prof. Dr. Barış ÇALLI (Marmara University)
	Prof. Dr. Osman A. ARIKAN (Istanbul Technical University)
	Prof. Dr. Bestami ÖZKAYA (Yıldız Technical University)

26.10.2020 MONDAY

26.10.2020 MONDAY					
HALL 1 CLICK TO ATTEND		HALL 2 CLICK TO ATTEND		HALL 3 CLICK TO ATTEND	
Session 1 : Zero Waste		Session 1 : Biological Methods for Waste Treatment - 1		Session 1 : Industrial Waste Management - 1	
Session Chair: Prof. Dr. Sandhya Babel		Session Chair: Prof. Dr. Eyüp Debik		Session Chair: Prof. Dr. Nihal Bektaş	
13:00	122_Keynote_ Situation of Plastics and Micro-plastics Pollution in Thailand <i>S. Babel</i>	13:00	142_Which Mathematical Model Best Fits the Methane Production in Pig Farms with Covered Lagoon Digesters? <i>J.O. Lopes , A.P. Rosa , A. C. Borges , I.P. Sousa , S.M. Melo , T.Massuger</i>	13:00	193_Treatment of Tannery Wastewater by Chemical Coagulation and Electrocoagulation <i>F. Ulu, M. Kobya</i>
		13:15	026_Co-inoculation of Rumen Fluid with Methanogenic Sludge Exhibits Distinct Microbial Communities in Semi-Continuous Single-Phase and Two-phase Anaerobic Digestion of Cow Manure <i>E.G. Ozbayram , O. Ince , Ç. Akyol, B. Ince</i>	13:15	191_Cadmium, Cyanide and Cadmium-Cyanide Removal from Wastewater Solutions by Electrocoagulation Process <i>F. Ulu, M. Kobya</i>
13:30	115_Zero Waste Strategies and Turkey's Zero Waste Project <i>B. Tan</i>	13:30	058_Dairy Wastewater and Possibility of Ethanol Producing from Cheese Whey Using Process Simulation <i>I.Malollari, S. Makolli, R. Buzo, J. Llupa</i>	13:30	186_Phenol Removal from Aqueous Environments with ZnO Nanoparticles Produced from Onion Peel Wastes by Green Synthesis <i>G.T. Canbaz, Ü. Açikel, Y.S. Açikel</i>
13:45	096_Public Attitudes Towards to Reaching Zero Waste Management Goal: ITU Ayazağa Campus Case Study <i>K.E. Maçın, O.A. Arkan, İ. Demir</i>	13:45	104_Heat-Assisted Vacuum Disintegration of Waste Activated Sludge for Improved Biogas Production <i>Ö. Kaplan, D. Akgül, B. Çalli</i>	13:45	053_Nanoscale Zero-Valent Iron Doped Pappus of Dandelion for Decolorization of Methylene Blue and Methyl Violet <i>Ş. Parlayıcı, E. Pehlivan</i>
14:00	180_ Investigation of Solid Waste Collection and Source Separation Alternatives in Beşiktaş District with Zero Waste Focus and GIS Supported <i>Ö. Apaydın, G. S. Akçay Han</i>	14:00	148_ITU Sustainable Bioenergy Production Plant: Preliminary Results from Container-type Digester Utilizing Food Waste Produced at ITU Campus <i>M.S. Akca , E. Agus, M. Altınbaş</i>	14:00	082_Cationic Dye Removal Using Chemically Activated and Microwave Irradiated Hazelnut Husk <i>P.S. Elbol , N. Ülgüdür , E. Malkoç</i>
14:15	135_College Students' Perceptions and Attitudes Toward the Use of Plastic Bags in Turkey and Puerto Rico <i>G. Kanat , N. Vardar</i>	14:15	158_ Insights to Improve Covered Lagoon Biodigesters in Pig Farms <i>L.A. Nascimento, R.R.M. Oliveira, I.P. Sousa , P.S. Maradini, A.P. Rosa</i>	14:15	185_Green Synthesis of ZnO Nanoparticles from Onion Peel Wastes <i>G.T. Canbaz, Ü. Açikel, Y.S. Açikel</i>
HALL 1 CLICK TO ATTEND		HALL 2 CLICK TO ATTEND		HALL 3 CLICK TO ATTEND	
Session 2 : Landfilling		Session 2 : Construction and Demolition Waste Management - 1		Session 2 : Industrial Waste Management - 2	
Session Chair: Prof. Dr. Barış Çallı		Session Chair: Dr. Elanur Adar		Session Chair: Prof.Dr. Tijen Ennil BEKTAŞ	
15:00	120_Keynote_Role of Sustainable Landfilling in Modern Waste Management Strategies <i>R. Cossu</i>	15:00	015_Three Types of Wood Waste Use From Mechanical Processing in Order to Obtain Qualitative Briquettes <i>A. Lunguleasa, C.G. Spirchez</i>	15:00	141_Adsorption of Dye From Wastewater Effluents from Textile Industries Using Alternative Adsorbents: Chitosan and Sawdust <i>R.M. Martins, A.P. Rosa, R.C. S de Sousa</i>
		15:15	016_A Comparative Study Regarding to Pellets and Briquettes Properties of Corn Cobs <i>C. Spirchez, A. Lunguleasa</i>	15:15	047_Production of Iron Oxide Nanoparticles from Ulva Lactuca with Green Synthesis for Use in Dye Adsorption <i>A.T. Koçer , B. Inan, D. Özçimen</i>
15:30	130_Landfill Site Selection for Solid Waste Disposal using Geospatial Data and Weight Overlay Method in GIS Environment <i>V. Kumar, A. Kumar, Y. Udairaj, P. Singh</i>	15:30	051_ Investigation of the Strength Development of Concretes Containing Waste Glass Powder at Different Cement Replacement Ratios <i>M. Asan , N. Saltaş , T.A. Söylev</i>	15:30	188_Estimating The Adsorption Capacity of Mining Waste –Leonardite- For Treatment of Copper <i>Z. Kurt</i>
15:45	069_A Study on Evaluation of Site Selection in Sanitary Landfill with Regard to Urban Growth <i>B.Y. Karabulut, P. Derin, M.İ. Yesilnacar, M.A. Cullu</i>	15:45	200_Valorisation of Heat Treated Boron Derivative Wastes with Different Particle Sizes as Portland Cement Replacements <i>L. Koroglu, D.O. Kaman, E. Ayas</i>	15:45	054_Adsorption of Ammonium and Phosphate Ions: Comparing The Adsorption Performances of the Bare & Composite Magnetite Nanoparticles <i>B. Kara , A. Gulyás , N. Semerci, Z.S. Can, S. Genç</i>
16:00	140_Estimate of Biogas and Electricity Generation in Landfills: A Study for the State of Minas Gerais, Brazil <i>P.S. Maradini, L.L.C. Santos, E.C. Berg, A.P. Rosa</i>	16:00	162_Making Use of Red Mud – the Tail of Aluminum – as a Sustainable Building Material <i>M. Dereli, M. Tosun</i>	16:00	062_Effectiveness of Fly Ash in Boron Removal from Tuzla (Çanakkale) Geothermal Fluid <i>M.O. Şahin, T.E. Bektaş, D.Ş. Yücel</i>
16:15	033_Satellite Remote Sensing and Image Processing Techniques for Monitoring MSW Dumps <i>F. Faizi, K. Mahmood, M.H. Chaudry, A.D. Rana</i>	16:15		16:15	068_Recovery of Phosphate from Aqueous Solutions Using Supported Engineered Nanoparticles <i>C. Hür, E. Erdim</i>
				16:30	117_Evaluation of Phosphogypsum as a Secondary Resource: Effect of Commercial Acid Treatment on Purification Efficiency <i>C. Avşar , D. Değirmenbaşı , S. Ertunç</i>

26.10.2020 MONDAY

HALL 1

[CLICK TO ATTEND](#)

HALL 2

[CLICK TO ATTEND](#)

HALL 3

[CLICK TO ATTEND](#)

Session 3 : Sustainable Solid Waste Management

Session 3 : Construction and Demolition Waste Management - 2

Session 3 : Sludge Treatment and Disposal

Session Chair: Prof. Dr. Güleđa Engin

Session Chair: Dr .Tanay Karademir

Session Chair: Dr. Neslihan Manav Demir

17:00	121_Keynote_Approaches for Sustainable Solid Waste Management in Developing Countries <i>L.F. Diaz</i>	17:00	046_The Influence of Walnut Shell Waste Usage on the Shear Strength Characteristics of Fine Grained Soils <i>Z.A. Arama , H.B. Gençdal , B. Başbuğ</i>	17:00	090_A Novel Nitrogen Removal Technology for Sewage: Complete Ammonium Oxidation (Comammox) <i>A.B. Şenol, B.A. Kocamemi</i>
		17:15	143_The Effect of Aggregate Sludge Waste on Durability Properties of Cement Mortars <i>H. Özkan, N. Kabay, S. Musaoğulları</i>	17:15	199_Energy Cost Assessment of Sludge Dewatering Process <i>P.S. Yapıcıoğlu, M.I. Yeşilnacar</i>
17:30	173_Implementation of the Life Cycle Assessment (LCA) Concept to the Planning of Sustainable Solid Waste Management <i>O.G. Baki</i>	17:30	030_Lime Stabilization of Clayey Landfill Base Liners: Consolidation Behavior and Hydraulic Properties <i>T. Karademir</i>	17:30	137_Treatment Sludge and Fly Ash Solidification / Stabilization <i>C. Koca , D.T. Başer, M. Gençosmanoğulları, A. Kemirtlek, M.F. Peker, F. Hoşoğlu</i>
17:45	111_Development of Solid Waste Management Decision Making Life Cycle Assessment Tool for Growing Economies: A State-of-the-Art Review <i>K.V. Shah, M.L. Sattler</i>	17:45	152_A Production Method for Glass Foam Insulation Material via Waste Flat Glasses <i>B. Evirgen , E. Kula , M. Tuncan</i>	17:45	203_Agricultural Utilization of Sewage Sludge (Biosolids): A Review on Industrial Hemp Growing <i>G.K. Akkaya</i>
18:00	029_Waste Management in E.U., Asia and Turkey <i>S. Öztürk, N.J. Themelis</i>				
18:15	018_The Prioritization of Critical County Municipalities According to Solid Waste Management Urgency by Multi-Criteria Decision-Making Approaches: A Case Study of Florida, U.S. <i>G.G. Güner</i>				

27.10.2020 TUESDAY

HALL 1

[CLICK TO ATTEND](#)

HALL 2

[CLICK TO ATTEND](#)

HALL 3

[CLICK TO ATTEND](#)

Session 4: Thermal Treatment Processes

Session 4 : Biological Methods for Waste Treatment - 2

Session 4 : Industrial Waste Management - 3

Session Chair: Prof. Dr. Dezhen Chen

Session Chair: Prof. Dr. André Pereira Rosa

Session Chair: Prof. Dr. Andreas Iordanidis

10:00	123_Keynote_Pyrolysis Combined Gasification: System Development and Application <i>D. Chen</i>	10:00	084_Food Waste Bioconversion through Lactic Acid Fermentation <i>S. Pau, L. C. Tan, P.N.L. Lens</i>	10:00	176_Characterization of The Coarse Fraction of Lignite Bottom Ash Samples from Greece <i>A. Iordanidis, A. Asvesta, I. Kapageridis, A. Vasileiadou, K. Koios, S. Oikonomidis, N. Kantiranis</i>
		10:15	093_Valorization of Food Waste by Oleaginous Yeast <i>S. S. Khaligh, M. Altınbaş</i>	10:15	177_The Efficiency of Lignite-fired Power Plants As Evidenced by Bottom Ash Analysis <i>A. Iordanidis, A. Asvesta, I. Kapageridis, A. Vasileiadou, K. Koios</i>
10:30	155_Energy and Raw Material Recovery from End-of-Life Tires with Pyrolysis Method in Turkey <i>S. Arslan, C. Esmen, M. Güneş, F. Aşkın</i>	10:30	157_Study of the Properties and Energy Potential of Malt Bagasse Produced in Breweries <i>A.L.P. Soares, G. S. B. Côrtes, A.P. Rosa</i>	10:30	149_Sulphur Dioxide Emission Dispersion from A Coal Fired Power Plant in Çanakkale, Turkey <i>E. Yavuz, S.L. Kuzu, A. Saral</i>
10:45	179_Development of Intensive Hot Syngas Clean-up System for Biomass Gasification <i>S. Beşirli, A.Erdem, M. Dođru, B. Keskinler</i>	10:45	091_Comparison of Hydrolysis and Conversion of Wheat Straw and Linter to Platform Chemicals in Various Co-solvent:Water Medium <i>B. Niş, B. Kaya-Özsel</i>	10:45	080_The Use of Cleaner Technology in Mining Industry <i>E. Ceylan, N. Bektaş</i>
11:00	057_The Effect of Hydrothermal Treatment on The Gasification Performance of CaO Conditioned Sewage Sludge <i>T. Yu, Y. Feng, D. Chen</i>	11:00	151_Energetic Feasibility of Paunch Waste Used As Biofuel <i>A.P. Rosa, G.C.Bandeira de Melo, W.L. Santos, A. Torres, S. G. Freire</i>	11:00	169_Evaluation of Coal Mine Wastes in Terms of Spontaneous Combustion Liability and Sulfur Content <i>M. Bilen, S. Yılmaz</i>
11:15	101_CFD-DEM Modeling of Sewage Sludge Flow in a Vertical Falling Pyrolysis Reactor <i>S. Ge, D. Chen, J. Yuan, L. Yin, Z. Mei</i>	11:15	045_The State of the Art of Nuclear Energy: Pros and Cons <i>E. Adar</i>	11:15	103_XRF Analysis of Airborne Heavy Metals and Distributions of Environment in Sivas City-Turkey through Dust Samples <i>Y. Nuhoglu, M. Yazıcı, C. Nuhoglu, E. Kam, E. Adar, S.L. Kuzu, A.E. Osmanliođlu</i>
11:30	160_RDF Production Potential in Turkey:Istanbul Case Study <i>H. Ak, T. Saraç</i>	11:30	079_Valorization of Lignocellulosic Wastes for Solid Acid Catalyst Production and Its Application in Biodiesel Production from Algal Oil <i>B. Inan, A.T. Koçer, D. Özçimen</i>	11:30	071_Productivity Improvement at Motor Vehicle Inspection Station by Using Taguchi Approach <i>R. Aykut Arapođlu</i>
11:45	170_Valorization of Poultry Litter <i>N.S.Topcu, G. Duman, H. Olgun, J. Yanik</i>	11:45	086_Biomethane Production Potential of Sunflower Straws: The Case of Turkey <i>M.U. Uyaver, D. Çınar, H. Civelek Yörüklü, B. Özkaya, A. Demir</i>	11:45	127_A Sustainable Approach for Alternative Raw Material Resources:Re-use of Phosphogypsum <i>D. Deđirmenbaşı, C.Avşar, S. Ertunç</i>

HALL 1

[CLICK TO ATTEND](#)

HALL 2

[CLICK TO ATTEND](#)

HALL 3

[CLICK TO ATTEND](#)

Session 5 : Waste Management Legislations

Session 5 : Biological Methods for Waste Treatment - 3

Session 5 : Membrane Technologies

Session Chair: Prof. Dr. Andjelka Mihajlov

Session Chair: Prof. Dr. Kunwar D. Yadav

Session Chair: Prof. Dr. Mehmet Çakmakcı

13:00	124_Keynote_EU's Green Deal and the Waste Framework Directive <i>O. Tabasaran</i>	13:00	114_Performance Evaluation of a Non-Odorou s Compost Barrel for Household Purposes <i>M.N. Lunag Jr., M.M.M. Boado</i>	13:00	197_The Effects of Pretreatment on Performance of Direct Contact Membrane Distillation Treating Cooling Tower Blowdown Water <i>Y. A.Uslu, H. Yaşar, M. İnce, E. İnce</i>
		13:15	172_Hazelnut Husk Based Acclimatization Soil for in-vitro Propagated Ornamental Plants <i>S. Ozdemir, M. Ozdemir</i>	13:15	198_Investigation of Membrane Fouling in Membrane Distillation Bioreactor <i>H. Yaşar, Y. A.Uslu, M. İnce, E. İnce</i>
13:30	024_Circular Economy goes beyond Waste Management <i>A. Mihajlov, A. Mladenovic, F. Jovanovic</i>	13:30	182_Role of Microbial Culture in Composting of Garden Waste <i>S. K. Mishra, K.D. Yadav</i>	13:30	087_Performance Comparison of Conventional Membrane Bioreactor and Moving Bed Membrane Bioreactor for the Treatment of Synthetic Textile Wastewater <i>A. Soysaloglu, B. Takatas, H. Sari Erkan, A. Çađlak, G. Onkal Engin</i>
13:45	076_The Use of Decision Support Systems for Evaluating Municipal Solid Waste Management Options <i>S. Öztaş, N. Bektaş</i>	13:45	184_Sensitivity of the SWAT Model to Soil Data Parameterization; Case Study in Saz - Çayırova Stream, Turkey <i>H.N. Oruç, M. Çelen, F. Gülgen, M.S. Öncel, S. Vural, B. Kılıç</i>	13:45	163_Boron Rejection from Aqueous Solution and Wastewater by Direct Contact Membrane Distillation <i>B. Tan, U. Selengil, T. Ennil Bektaş</i>
14:00	154_The Agricultural Waste Inventory On the Regional Basis in Turkey: Valuation of Agricultural Waste with Zero-Waste Concept in the Scope of Circular Economy <i>S. Sertgümeç, A.N. Usta, C. Özarpa</i>	14:00		14:00	049_Energy Production by Reverse Electrodialysis Fed with Treated Wastewater by Advanced Biological Process <i>A. Zougrana, O. K. Türk, M. Çakmacı</i>
14:15	192_Factors Influencing Community Participation in Waste Reduction through Waste Bank <i>C. Meidiana, T. Sekito, S. Hariyani</i>	14:15		14:15	107_Treatment of Nanofiltration Concentrate Discharge Water For 2nd Class Sanitary Landfill Facility Leachate <i>F.Çoker</i>

HALL 1

[CLICK TO ATTEND](#)

HALL 2

[CLICK TO ATTEND](#)

HALL 3

[CLICK TO ATTEND](#)

Session 6 : Circular Economy and Waste Management

Session 6 : Waste Management Systems

Session 6 : Water and Wastewater Management

Session Chair: Prof. Dr. Sadhan K. Ghosh

Session Chair: Prof. Dr. Yılmaz Yıldırım

Session Chair: Prof. Dr. Neslihan Doğan Sağlamtimur

15:00	165_Keynote_Global Resource Circulation Business S. K. Ghosh	15:00	167_Food Waste Management in Kuwait: Current Situation and Future Needs A. Albeeshi, A. Alsulaili, F. Al-Fadhli	15:00	013_Effect of Wastewater Irrigation on Phenolic Compounds and Antioxidant Activity of (<i>Echium amoenum</i> Fisch.) R.D. Bidgoli
		15:15	178_Solid Waste Management in Zonguldak Bülent Ecevit University Y. Yıldırım , Y. Altun	15:15	056_Botryococcus Braunii Cultivation in The Wet Oxidation Liquid from The Hydrothermal Carbonization of Orange Pomace S.Z. Tarhan , A.T. Koçer, D. Özçimen, İ. Gökalp
15:30	144_Deposit Refund System for Beverage Containers as a Best Practice Example for Recycling Maximization E. GÖrgün, K. A. Adsal, A. Mısır, E.V. Aydın, Ç.E. Ergün, N. Keskin, A. Acar, Ş. Ergenekon	15:30	011_Solid Waste Management in Non-State Armed Group-Controlled Areas of Syria Case Study "Jisr-Ash-Shugur-District" A. Saghir	15:30	196_Circular Economy for Water F. Çİner, N. Doğan-Sağlamtimur
15:45	146_Location Selection for Reusable Waste Collection Center using the Multiple-Criteria Decision-Making Technique (TOPSIS): Case of Şehremini S. Maden, H.S. Kaya	15:45	159_Airplane Cabin Waste Characterization: A Case Study of Istanbul G. Patar , A.İ. Kara , E. Hacimustafaoğlu , Ö.F. Yılmaz , K. Sezer , M.F. Peker, F. Hoşoğlu	15:45	183_Influence of Current Environmental Pressures on Ecosystem of Dil Stream Basin M. Yağcıoğlu , M.S. Öncel , H.N. Oruç, M. Çelen
16:00	089_The Circular Economy Assessments in Solid Waste Management Projects of Istanbul H.V. Oral	16:00	164_Significant Density Change in Medical Waste During Covid 19 Pandemic and Effects on Medical Waste Management in Istanbul F. Hoşoğlu, A. Kiriş, A.Ç. Gör, İ. Özkaya, M. Söğüt, N. Gündoğdu	16:00	153_Preventive Methods and Applications in Flood Control M. Sarıgül , F. İ.Türkdoğan
16:15	171_Quantity or Quality?: Analysis of The Tourism Impact on Municipal Solid Waste Generation From A Demand-Side Approach E. Diaz-Fariña, J.J. Diaz-Hernández, N. Padrón-Fumero	16:15	072_Medical Waste Collection Problem: A Case Study in Eskişehir R.A. Arapoğlu	16:15	
16:30	070_Waste-derived Products and Secondary Raw Materials as a Chance to Reduce MSW Management Costs in Developing Countries – Case Study for Jordan K. Kippert , M. Ali , A.Hamaideh , K.Fricke	16:30	201_Sediment Wastes from Ship Tanks and Waste Management of Shipyards T. Satır , N. Doğan-Sağlamtimur	16:30	

POSTER PRESENTATIONS (26.10.2020 - 27.10.2020 - DURING ALL BREAKS BETWEEN THE SESSIONS)

P1	038_Strategic Design of a Sustainable Hybrid Bioethanol Supply Chain with a Solid Waste Management System <i>Y.R. Dzhellil, B.B. Ivanov, N.G. Vakiieva-Bancheva, E.G. Kirilova</i>	P5	129_Treatment of Wastewater Generated by Wood-Based Dry Industry and Municipal Wastewater for Microalgae Cultivation <i>M. Vehapi, B. Inan, D. Özçimen</i>
P2	048_Determination of Combustion Kinetic Parameters of Microalgal Wastes <i>A.T. Koçer, D. Özçimen</i>	P6	168_Improving Energy Efficiency Biodiesel Supply Chain Using Agricultural Waste <i>E.I. Ganev, B.B. Ivanov, Y.R. Dzhellil, N.G. Vakiieva-Bancheva, E.G. Kirilova</i>
P3	099_Heavy Metal Removal by Electrocoagulation Method and an Industrial Symbiosis Application <i>A. Aşkın, M. Arslan, Ü. Tezcan Ün, İ. Tatar</i>	P7	174_Removal of Toxic Cr(VI) Ion from Aqueous Solution Using Amine-Functionalized Poly(Ethylene Terephthalate) Fiber <i>Z. Temoçin, S. Kutluer</i>
P4	126_ Investigation of the Relationship Between Surface and Drainage Materials Used in Landfill Sites in Istanbul and Leachate Character and Type of Clogging in Pipes <i>S. Tokei, C. Koca, A. Kemirtlek, M.F. Peker</i>	P8	175_Conversion of Phenolic Compound in Aqueous Solution Using Immobilized Peroxidase onto Blend Nanofiber <i>Z. Temoçin, S. Kutluer</i>

VIRTUAL TOUR

[CLICK TO ATTEND THE 3D VIRTUAL TOUR OF WASTE MANAGEMENT FACILITIES OF ISTAC INC.](#)