



# INTERNATIONAL LANDFILL WORKSHOP

4-5-6 December 2017

Boğaziçi University, Istanbul, Turkey



*SUPPORTED BY*





# *Introduction...*



Dear Colleagues;

You are cordially invited to attend and contribute to the “**International Landfill Workshop**” to be held at Boğaziçi University, İstanbul, Turkey from **December 4 to 6, 2017**. The International Workshop is organized by the Turkish National Committee on Solid Wastes (TNCSW), International Solid Waste Association (ISWA) and premier waste management company of municipality in Istanbul (ISTAC Inc.) with the strong support of many national and international institutions aiming to demonstrate the key areas and critical issues to be considered in construction, operation and maintenance of landfill.

Landfill remains as the widely applied disposal technology for waste management worldwide and is likely to be so for the foreseeable future particularly where open dumping remains the current practice. Many countries are still experiencing difficulties and it is clear that in countries where open dumping is current practice, there are always environmental pressures as well as health drivers to move towards the sanitary landfill.

This training workshop, through two-day keynote speeches and oral presentations by ISWA and ISTAC experts, will offer an expert overview of the current issues and developing trends on landfills. The workshop also address operational guidelines, includes case studies from Turkey, Europe and the World through which participants will be able to see how a sustainable integrated sanitary landfill is operated in practice by attending to a technical tour.

The training course will be of benefit to participants especially from economically developing countries as well as those already operating landfills in economically developed countries to learn and provide truly sustainable landfills.

On behalf of the Organizing Committee, I'm looking forward to meet you at the Landfill Workshop in Istanbul.

*Prof. Dr. Günay Kocasoy*

*ISWA Honorary Member  
President, Turkish National Committee on Solid Waste  
Boğaziçi University*



## SPEAKERS

ISWA	
Luis Marinheiro	Chair of the ISWA Landfill Working Group
Derek Greedy	Ex-chair of the ISWA Landfill Working Group
Alexei Atudorei	Board Member of the ISWA, Landfill Working Group Member
Ioannis Frantzis	Director of I.Frantzis & Associates Ltd, Solid Waste Management Specialist
ISTAC	
Dr. Mevlüt Fatih Peker	Project and Business Development Manager
Kadir Sezer	Project Management Chief
Erkan Aliođlu	Seymen Waste Disposal Chief
Aydın Baran	Treatment Plants Chief
Fırat Sarp	Energy Management Chief



## ORGANIZING COMMITTEE

Prof. Dr. Günay Kocasoy	President of TNCSW Boğaziçi University
Prof. Dr. Recep Külçü	Chair of TNCSW Composting Working Group Süleyman Demirel University
Dr. Mevlüt Fatih Peker	ISTAC, Project and Business Development Manager
Binnur Aylin Alagöz, Ph.Dc.	Board Member of TNCSW Boğaziçi University
Ekin Yurdakul, M.Sc.	TNCSW Administrative Affairs Coordinator Boğaziçi University



# SPEAKERS

Luís Marinheiro is the Chair of the ISWA Landfill Working Group and also serves ISWA as a member of the Scientific and Technical Committee and the European Group.

Luís Marinheiro holds an Environmental Engineering Degree (University of Aveiro, 1996) and a Biological Engineering Master Science (University of Minho, 1999). He has worked in both the public and private sectors of the waste management for well over 20 years. His practical experience in landfill operations together with his academic background and his wastewater industry knowledge gave him the skills and knowledge which is necessary to become a waste treatment and landfill project manager in one of Portugal's largest waste management companies. In that role he had operational responsibilities in some urban services design (collection, transportation and transfer of solid waste) and in waste treatment and landfill projects, as well as providing technical input to applications for master planning, environmental assessment and site permits. Working as a consultant, advisor, coordinator and technical director, Luís was also manager and coordinator of several projects and contracts to provide services in various environmental areas such as waste management, drainage and wastewater treatment, sustainable construction, environmental impact assessment and environmental management. Luis Marinheiro is co-author of ISWA's "Roadmap for Closing Dumpsites – The World's Most Polluted Places".



Luis Marinheiro



He has a wealth of knowledge having first joined the industry in 1975 as a regulator following which he then held operational and technical positions for two of the major waste management operators in the UK. He continues to be involved in the industry as an active member. Derek has been a member of ISWA since 1996 and past Chair of the ISWA Landfill Working Group as well as serving as a member of the UK ISWA National Committee. From 2001 he worked as a Consultant before joining Warwickshire County Council in May 2005 as their Principal Waste Management Advisor. His expertise is primarily in landfill but he has a breadth of knowledge which embraces waste planning, waste regulation, treatment technologies, developing countries and environmental monitoring.

He is a Chartered Environmentalist and a Fellow of the Chartered Institution of Wastes Management (CIWM). Derek has chaired the Scientific and Technical Committee of CIWM as well as being a member of its General Council and Executive Committee. He was the President of CIWM for the year October 2011 to October 2012.

Derek is currently the National Member Representative on the ISWA Board.



Derek Greedy





# SPEAKERS



Alexei Atudorei

Mr. Alexei Atudorei works from thirty years in the field of environmental protection and in the last fifteen years has been involved in important local, regional and national projects in waste management in Romania (municipal, medical, industrial, non hazardous and hazardous waste) starting from the implementation of the UE legislation (strategies, implementation plans, technical norms) to design, construction, maintenance and operation of waste management facilities.

He studied in Netherlands, France, Germany, Denmark and Japan, he has a Ph.D. on energy recovery from waste, wrote one book on Municipal Waste Management, over 90 articles in technical journals and took part, as a speaker, at over 50 congresses, seminars and workshops in Europe and USA.

Starting with 2013 is a Board Member of International Solid Waste Association (ISWA) responsible for Regional Development Network Southeast Europe, Middle East and Mediterranean.



Ioannis Frantzis

Mr. Ioannis Frantzis is the Director of the I. FRANTZIS & ASSOCIATES Ltd and a MSc in Environmental Engineering. He is working in the environment field for over 30 years, with particular emphasis on solid waste management projects including all relevant activities along waste hierarchy and waste minimization. He has worked as a Team Leader and gained vast experience in the waste sector, including preparation and review of waste management strategies and/or masterplans, preparation of feasibility studies, development of systems for waste collection, transportation, treatment (including Waste to Energy and various types of MBT plants) and final disposal (landfills) of the waste and good knowledge of waste management costs (construction, operation, maintenance). He also has a deep knowledge of the EU policies (EU Directives in the Solid Waste field and Environmental Legislation) as well as the relevant regulatory issues in the waste minimization sector.

During the last years, Mr Frantzis has been also involved in the design and licensing of energy production projects (electricity/thermal energy) from biomass and other sustainable sources of energy projects. He is well acquainted with EBRD policy and performance requirements and his track records include international working experience covering many EBRD Countries (as Greece, Cyprus, Turkey, Albania, Lebanon, Jordan) as well as in other countries (Thailand, Vietnam, Maldives, etc.).



# SPEAKERS



Mevlüt Fatih Peker

Mevlüt Fatih Peker was born in Konya/Turkey on July, 1982. He graduated from Fırat University (Turkey) Department of Mechanical Engineering in 2006. In the same year, he began a master education at Istanbul Technical University, Energy Institute, Department of Energy Science and Technology.

Before completion of his degree, he attended Virginia Commonwealth University (Virginia, USA) Department of Mechanical and Nuclear Engineering in 2008. He received a Master and PhD degree from Virginia Commonwealth University in 2012. During his education he focused on “manufacturing of fuel cells, renewable energy sources” and published 7 academic papers.

M. Fatih Peker started his working career at Istanbul Metropolitan Municipality as a structural control engineer in 2006 and worked 2 years there. He has worked for Coca-Cola in Virginia as a maintenance engineer. Then he worked for Istanbul Environmental Management Company (Istac Inc.) on different positions (Mechanical Engineer, Project Management Chief, Research-Development Chief, Project and Business Development Manager). As a project manager he is responsible more than 10 large scale environmental management projects.



Kadir Sezer

Kadir Sezer graduated from Istanbul Technical University, Department of Environmental Engineering in 2005. He received his master's degree from the Department of Environmental Engineering in 2008 and still continues his PhD studies in the same department. Kadir Sezer worked as an environmental engineer at ISTAC Inc. between 2009 and 2014 and R&D engineer at the Project Development Department between 2014 and 2015. Since 2016, Kadir Sezer has been working as Project Management Chief.

He has many published papers and presentations at national and international symposiums and conferences. His main study subjects are integrated waste management, characterization of solid waste, preparation of feasibility reports for waste treatment facilities, regular storage of wastes, biological processes in waste management, compost technologies, biogas production from urban organic wastes, waste incineration technologies and recovery of oil derived wastes from ship waste.





# SPEAKERS



**Erkan Alioğlu**

Erkan Alioğlu graduated from Niğde University, Aksaray Engineering Faculty, Department of Environmental Engineering. Erkan Alioğlu has been working for ISTAC Inc. since 2006. Erkan Alioğlu worked as the Project Control Engineer in the Project of the Separate Collection of Packaging Wastes between 2006-2010. After this Project, he was assigned as the Operational Engineer in Kömürcüoda Sanitary Landfill Site and Leachate Treatment Plant between 2010-2014. He worked as the Chief of «Kömürcüoda Regular Storage Facility» between 2014-2017. He has now working as the Supervisor of Seymen Waste Disposal Facility since 2017.



**Aydın Baran**

Aydın Baran graduated from Atatürk University, Department of Environmental Engineering in 2003. Aydın Baran worked as a project engineer in wastewater, rainwater and other infrastructure projects for Ensar Building Contractors between 2004 and 2005. He has worked on the design of rain water infrastructure project for the entire Kayseri center for KASKI and also as a project engineer in Bursa (BUSKI), ISKI, Bank of İller and road projects on rainwater, wastewater, drinking water and deplase projects. Aydın Baran also worked as a project engineer in wastewater, rainwater and other infrastructure projects for Arttek Engineering between 2005 and 2008.

Aydın Baran has been working for ISTAC Inc. since 2008. He has worked as an operational field engineer in Odayeri Sanitary Landfill Site and Leachate Treatment Plant between 2008 and 2013 and assigned for the preparation and implementation of infrastructure projects, leachate treatment, etc. He worked as the Facility Chief at the Warehouse between 2013 and 2014 and at Seymen Waste Disposal Facility between 2014 and 2017. He has been actively working as the Chief in the Leachate Treatment Plant (Kömürcüoda and Odayeri) since 2017.



**Fırat Sarp**

Fırat Sarp graduated from Kadir Has University, Department of Electronics Engineering and has been working for ISTAC Inc. since 2003. After working for five years at the Hasdal Depot Gas (LFG) Power Generation Plant, he worked as a control engineer in all the processes from establishment to operation of LFG plants in Odayeri and Kömürcüoda. He has been working as Energy Management Chief since 2014.



# WORKSHOP PROGRAM

Monday (04/12/2017)

<u>Time</u>	<u>Description</u>	<u>Lecturer</u>
08:30 – 09:00	Registration	
09:00 – 09:15	Welcome Speeches	Prof. Dr. Günay Kocasoy Dr. Mevlüt Fatih Peker Luis Marinheiro, MSc.
09:15– 10:00	Keynote Speeches	Prof. Dr. Mehmed Özkan – Rector of Boğaziçi University Prof. Dr. Mustafa Öztürk – Deputy Minister
10:00 – 10:45	ISWA - Closure of Open Dumps	Derek Greedy
10:45 – 11:15	Coffee Break	
11:15 – 12:00	ISWA - Construction of a Sanitary Landfill	Luis Marinheiro
12:00 – 12:45	ISTAC - EU Supported “Çorum Integrated Waste Management Facilities” Construction Process	Kadir Sezer
12:45 – 14:00	Lunch	
14:00 – 14:45	ISWA -Landfill Gas Collection, Treatment and Utilization	Luis Marinheiro
14:45 – 15:30	ISWA - Day-to-day Landfill Operations (Operational Guideline)	Derek Greedy
15:30 – 16:00	Coffee Break	
16:00 – 16:45	ISWA - Current Landfill and Municipal Solid Waste Situation in Romania	Alexei Atudorei
16:45 – 17:30	ISTAÇ - Construction and Operation of the Sanitary Landfill Site: A Case for İstanbul	Erkan Alioğlu
17:30 – 18:00	Discussion/Q&A	
18:00 – 18:15	Final Remarks and Closing Session	
18:15 – 19:15	Social Hour	

Tuesday (05/12/2017)

<u>Time</u>	<u>Description</u>	<u>Lecturer</u>
08:30 – 09:00	Registration	
09:00– 09:45	ISWA - Leachate Management	Derek Greedy
09:45 – 10:30	ISWA - The role of MBT in Solid Waste Management within future challenges	Ioannis Frantzis
10:30 – 11:00	Coffee Break	
11:00 – 11:45	ISTAÇ – Wastewater Management in Landfill Sites	Aydın Baran
11:45 – 12:30	ISWA - Landfill Mining	Luis Marinheiro
12:30 – 13:45	Lunch	
13:45 – 14:30	Energy Production from Landfill Gas	Fırat Sarp
14:30 – 15:15	ISWA - GHG – Impact of the Landfill Sector on Climate Change	Luis Marinheiro
15:15 – 15:45	Coffee Break	
15:45 – 16:00	ISWA - Round Table Panel and Discussion	All the Speakers
16:00 – 18:00	Final Remarks and Closing Session	

Wednesday (06/12/2017)

<u>Time</u>	<u>Description</u>
10:00 – 17:00	Technical Visit to Sanitary Landfill Sites





# REGISTRATION, FEE AND PAYMENT

	Registration Fee (€)
<b>Academician</b>	200
<b>Public Sector</b>	250
<b>Private Sector</b>	300
<b>Student</b>	100

\* 20% reduction will be applied for TNCSW, ISWA and ISTAC members. This rates will be available for the members who paid the membership fees by the time of the registration.

- 1) At the end of the workshop, certificates signed by the Chair of the ISWA Landfill Working Group and Chair of the TNCSW will be given to the participants.
- 2) The registration fee includes lunches, coffee break, proceeding, technical visit and the opening ceremony (cocktail).
- 3) There will be a simultaneous translation from English to Turkish and Turkish to English.

## Bank Account Information (€)

Bank Name: Garanti Bankası

Bank Branch: Boğaziçi Üniversitesi Şubesi

Account Name: Katı Atık Kirlenmesi Araştırma ve Denetimi Türk Milli Komitesi

Bank Account Number: 303-9074986

IBAN: TR93 0006 2000 3030 0009 0749 86





# REGISTRATION FORM

REGISTRATION FORM	
<b>Name:</b>	
<b>Organization:</b>	
<b>Address:</b>	
<b>City:</b>	
<b>Country:</b>	
<b>Tel:</b>	
<b>E-mail:</b>	
<b>Date:</b>	
<b>Signature:</b>	

\* Please send the bank receipt with this form to [kakad@boun.edu.tr](mailto:kakad@boun.edu.tr)

The costs regarding transportation and accommodation are not included in the registration fee and have to be paid by the participants. After receipt of the registration, participants will be informed about the list and the reduced costs of the hotels that the organization committee has made agreements.





# VENUE

The Workshop will take place at Boğaziçi University, BUMED Istanbul, Turkey. More information:

Boğaziçi Üniversitesi Mezunlar Derneği Güney Kampüs 34342  
Bebek/İSTANBUL



# FURTHER INFORMATION

For further information about the workshop please contact  
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