

17-18 November

Uzbekistan, Tashkent - 2022

TOPICS:

- Renewable energy & Energy Conversion
- Environmental Technologies
- Earth Resources Engineering

ORGANIZERS:



SCOPE

The Uzbekistan-Japan International Conference «Energy-Earth-Environment- Engineering» will be held on 17-18 November 2022 in Uzbekistan Japan Innovation Center of Youth, Tashkent, Uzbekistan.

This Conference will offer researchers from around the world who have interests in interdisciplinary research in energy, earth, environmental engineering. It would like to facilitate interactions between researchers from industry, national laboratories and academia for the future international collaborators.

The following topics and related ones are invited:

- Renewable energy & Energy Conversion
- Environmental Technologies
- Earth Resources Engineering

GENERAL INFORMATION

Official Language: English.

The science program committee will schedule both oral and poster sessions in hybrid form including a "live" in-person event with a "virtual" online component.

Local Organizing Committee

Nargiza Amirova, Yukinori Yanagida, Zukhra Kadirova, Nodir Turakhodjaev,
Sokhibjon Matkarimov, Shakhlo Daminova, Zikrilla Alimov

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Hygienic assessment of the impact of household waste on human health

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Every day, tons of garbage are taken to landfills, most of which will be in their original form for hundreds of years, negatively affecting the environment. Therefore, the preservation of nature and human health has become the most important task today. Waste sorting and recycling can significantly reduce the impact of toxic chemicals on both humans and the environment.

Attitude towards environmental protection is becoming one of the main indicators of the level of development of our state. During the technological progress and economic modernization, our society has become a "consumer society". Therefore, one of the most acute environmental problems remains the problem of recycling and disposal of waste. And one of its effective solutions is the organization of separate waste collection with their further recycling. Currently, the main type of disposal is landfill, about 90% of MSW (municipal solid waste) is taken to landfills and landfills. So there is evidence that over 15 years, 80% of the buried organic matter has not decomposed, because the garbage removed has different terms and conditions of decomposition. The decomposition time of the most common office paper is 2 years, an iron can is 10 years, foil is more than 100 years, an electric battery is 110 years, a rubber tire is 140 years, plastic is from 140 to 500 years, an aluminum can is 500 years, and glass - more than 1000 years.

Another method of disposal is incineration. Incineration is a waste treatment method that utilizes the organic materials contained in the waste. The main disadvantage of the recycling method is the release into the atmosphere of highly toxic compounds - poisons, mutagens, carcinogens, which are the strongest poisons that affect human immunity. Due to the presence of toxins in the air, the susceptibility of the human body to infections increases, the frequency of allergic reactions, oncological and other serious diseases increases. Obviously, burial and incineration are not the most efficient resource-saving means. Of all types of waste, plastic is considered the most dangerous, due to its huge production, daily disposable use, long-term decomposition, and the content of hazardous substances. Plastic kills millions of marine life every year.

Recently, steps have been taken more and more successfully towards the disposal method - recycling. Recycling is an activity that consists in waste management in order to ensure their reuse in the national economy and obtain raw materials, energy, products and materials. Waste sorting is necessary for recycling. Separation of garbage, or, more precisely, separate collection of garbage, selective collection of waste - actions for collecting garbage, depending on its origin. Separation of garbage is done in order to avoid mixing different types of waste and environmental pollution. This process allows you to give waste a "second life". Waste separation allows the most efficient use of resources by returning recyclable types of waste to production.

Garbage can be handed over to containers at shopping centers in our city, or you can hand it over to monthly promotions for the collection of recyclables. And that's just me having three boxes, but how much raw material will be for processing if all residents start using separate collection?! Our factories will not have to buy waste from abroad. And the world around will become cleaner and more beautiful!