



ECO-SYNERGY 2026

International Scientific Conference
on Environmental Synergies:

Waste Valorization, Water Resource
Sustainability and Energy Efficiency

A G E N D A



WASTE
VALORIZATION



WATER RESOURCE
SUSTAINABILITY



ENERGY
EFFICIENCY



23 SEPTEMBER 2026



Executive Summary

In 2026, Azerbaijan State Oil and Industry University (ASOIU) will host the UI GreenMetric World University Rankings Results & Awards Ceremony 2026, an international event bringing together the global university community around the shared values of sustainability, environmental responsibility, and international cooperation.

On 23 September 2026, as part of this major international event, the ECO-SYNERGY 2026 - International Scientific Conference on Environmental Synergies: Waste Valorization, Water Resource Sustainability and Energy Efficiency will take place.

The conference will bring together scientists, researchers, and representatives of the academic community from different countries, as well as leading educational and research institutions. The scientific programme will feature 60 research papers addressing current sustainability challenges and innovative scientific and technological solutions.

The geographical reach of the conference spans Azerbaijan, Germany, Türkiye, Pakistan, Malaysia, Indonesia, Kyrgyzstan, Georgia, and the Philippines, highlighting the international scope of ECO-SYNERGY 2026 and providing a platform for scientific dialogue, knowledge exchange, and the development of new academic partnerships.

The main research areas include waste valorization and the circular economy, sustainable water resource management, renewable energy and energy efficiency, artificial intelligence and digital solutions, advanced materials, and environmental technologies.

ECO-SYNERGY 2026
Connecting Science. Creating Synergies. Shaping a
Sustainable Future.

EVENT AGENDA

Day 1 — 23 September 2026



8.00 AM – 9.00 AM

Registration and Networking

UI GreenMetric 2026 Results & Awards Ceremony

MEET | CONNECT | COLLABORATE



9.00 AM – 10.00 AM

Opening Remarks

INSPIRE | ALIGN | ADVANCE



11.00 AM – 1.00 PM

ECO-SYNERGY 2026

International Scientific Conference on Environmental Synergies:
Waste Valorization, Water Resource Sustainability and Energy Efficiency

SCIENCE | SOLUTIONS | A GREENER TOMORROW





23 SEPTEMBER 2026

OPENING CEREMONY

11:00 – 11:20



Elviz Ismayilov

Vice-Rector for Science and Innovation,
Azerbaijan State Oil and Industry University



Rustam Shafagatov

Chairman of the Public Council under
the Ministry of Energy of the
Republic of Azerbaijan



Nurlan Aliyev

"Caucasus Canning Factory" LLC,
Lankaran Canning Factory Manager



Əli Əlizadə

Director of the Science Department,
Azerbaijan State Oil and Industry
University

Moderator: Saurav Dixit Khalifa University, Abu Dhabi, UAE

Time	Speaker	Affiliation	Presentation Title
11:20–11:30	Gular Bayramova	Azerbaijan Food Safety Institute, Central Phytosanitary Laboratory	Analytical validation of a real-time rt-pcr assay for the detection of plum pox virus in imported prunus planting materials and risk assessment based on potential aphid vectors in Azerbaijan
11:30–11:40	Muhammed Fatih Hasar	Bingöl University, Türkiye	Zero waste management at bingöl university campus characterization of recyclable waste and assessment of recovery potential
11:40–11:50	Hafiz Alisoy	Tekirdağ Namık Kemal Üniversitesi, Türkiye	Mathematical modelling and simulation of electrostatic charge generation and dissipation on polymeric fibers
11:50–12:00	Nihat Karimov	Azerbaijan State Oil and Industry University, Baku, Azerbaijan	Pectin extraction from Jerusalem artichoke (<i>helianthus tuberosus</i> L.) and the development of a sugar-free jam product: physicochemical, microbiological and functional evaluation

12:00- 12:10	Ravana Guliyeva	Baku State University, Baku, Azerbaijan	Plant-mediated green synthesis of metal and metal oxide nanoparticles for abiotic stress mitigation: mechanistic Insights, physiological responses, and emerging applications
12:10- 12:20	Shuhrat Jumayorov	Institute of Microbiology, Academy of Sciences of the Republic of Uzbekistan	The role of biological preparations in reducing the impact of soybean mosaic virus on the Soybean cultivars 'Ehtiyoj' and 'Xotira'
12:20- 12:30	Zakir Rzayev	Azerbaijan State University of Oil and Industry (ASOIU), Baku, Azerbaijan	Effects of ozonation conditions on the physicochemical properties of fuel oil
12:30- 12:40	Gunel Azimova	Institute of Chemistry PLE, Baku, Azerbaijan	Depolymerization of bio-based poly(Ethylene 2,5-furanoate). A step from pollution to solution
12:40- 12:50	Rosanna Generato	Bukidnon State University, Philippines	Tracking and tackling the rising energy consumption trend of a higher education institution in mindanao, Philippines

12:50– 13:00	Fakhruddin, Nurul Safitra Trimelliana, Amiruddin, Arifuddin Akil	Hasanuddin Universitas, Makassar, Indonesia	Mechanical performance and microstructural characteristics of coconut fiber reinforced fly ash sugarcane bagasse ash geopolymer concrete
13:00– 13:10	Adil Bairamov	Research & Development Berlin, Germany	Deep geothermy. opportunities and prospects for development in the Karabakh Region of the Azerbaijan Republic
13:10– 13:20	Khamis Abiyev	Azerbaijan State Oil and Industry University	Assessment of the possibility of using vsc for heavy oil fraction

Conference Venue: Main Building of Azerbaijan State Oil and Industry University (ASOIU), Room 250.

- ❖ Session Format & Notes for Chairs and Presenters
- ❖ Each paper is allotted 10 minutes: approximately 6–7 minutes for the presentation and 4–3 minutes for questions and discussion.

Participants attending exclusively for the scientific conference without prior registration may attend only ECO-SYNERGY 2026, which will take place on 23 September 2026, from 11:00 a.m. to 13:20 p.m.

Conference link:

- 1) [Eco-Synergy 2026 konfrans | Meeting-Join | Microsoft Teams](#)
- 2) <https://teams.microsoft.com/meet/493492555011255?p=cMr7FZhHMYtfSej4JY>

Conference Contact

Venue:	Azerbaijan State Oil and Industry University (ASOIU)
Address:	Azadliq Avenue 34, Baku, Azerbaijan, AZ1010
Email:	eco-synergy@asoiu.edu.az
Website:	https://asoiu.edu.az/greenMetric/conference_session



**Baku, Azerbaijan
2026**