

AGENDA

ONLINE TRAINING

**GREEN CHEMISTRY FOR INDUSTRY:
INNOVATIONS AND TOOLS FOR SUSTAINABLE DEVELOPMENT**

Global GreenChem Innovation and Network Program

REGISTRATION

11 December 2024

14:00-16:00 (EEST)

Format: online Teams

Language: Ukrainian



ONLINE TRAINING

GREEN CHEMISTRY FOR INDUSTRY: INNOVATIONS AND TOOLS FOR SUSTAINABLE DEVELOPMENT

11 December 2024, 14:00-16:00 (EEST), online Teams

AGENDA

Time	Item
14:00-14:10	WELCOMING REMARKS
14:10-15:25	INNOVATIVE APPROACHES AND TRENDS IN GREEN CHEMISTRY FOR INDUSTRY <ul style="list-style-type: none">– Overview of international standards and requirements <i>Give a quick overview of international regulations and industry standards, such as REACH, to show why we need to move towards environmentally sound practices.</i>– Green chemistry approaches and tools for industry <i>To outline the main green chemistry approaches aimed at replacing toxic chemicals in production. Special attention will be given to solutions for industrial enterprises.</i> <i>Provide an overview of green chemistry tools for business - considering specific methods and approaches such as Life Cycle Assessment (LCA) tools, Health and Environmental Impact Assessments, databases and platforms for finding green solutions.</i>– Examples of the application of green chemistry principles <i>To present real examples of Green Chemistry implementation in Ukrainian and foreign companies</i>– Practical exercise <p>Oleksandr Khokhotva, <i>Chemical Management Expert, Resource Efficient and Cleaner Production Centre</i></p>
15:25-15:40	PRESENTATION OF THE GREEN CHEMISTRY ACCELERATOR PROGRAM <i>Present the Accelerator Programme, its stages, and benefits. Also, present the pre-registration form for mentors and participants.</i> Olena Tabachuk, <i>GreenChem Business Accelerator Program Manager, Resource Efficient and Cleaner Production Centre</i>
15:40-16:00	Q&A SESSION WRAP-UP OF THE TRAINING

Event objectives:

- Raise awareness of the Green Chemistry concept among the participants;
- Review international standards and requirements for the use of chemicals;
- Present the possibilities of green chemistry, its tools and approaches in various production processes and industrial sectors;
- Demonstrate case studies of the Green Chemistry application;
- Present the GreenChem Accelerator Programme in Ukraine.

Participants

The event will be open to all stakeholders interested in and working on issues related to chemical sector, green chemistry, industry, circular economy, resource efficient and cleaner production, and environmental protection. Representatives of industrial companies, central and local authorities, professional organizations, business associations, NGOs, educational and research institutions are invited to participate in the training.

Practical information

The training will be organized online on the 11th December 2024, 14:00-16:00 (EEST) using Tems platform. The agenda includes presentations and discussions with all participants. The language of the event will be Ukrainian.

To participate in the event, interested participants should pre-register by following the link <https://forms.gle/buDaFQx615G9qrKJ6>

Organizers

The training will be organized by the RECP Centre in Ukraine in close collaboration with the Center for Green Chemistry & Green Engineering at Yale University under GEF-funded UNIDO project “The Global GreenChem Innovation and Network Programme”.

Background

As the world grapples with the pressing challenges of climate change, pollution and resource depletion, the need for sustainable and environmentally friendly solutions becomes more critical than ever. Green chemistry is the next industrial revolution and it has already started. For more than three decades, Green Chemistry has provided a framework for chemists and chemical engineers to do their part in contributing to the broad scope of global sustainability. Green chemistry is a rapidly developing field providing an avenue for the sustainable development of future science and technology. It offers enhanced chemical process economics, concomitant with a reduced environmental burden. It is expected that chemists and chemical engineers should produce greener and more sustainable chemical processes design and it is likely that this trend will continue to grow over the next few decades.

Despite its promise, the path to widespread adoption of green chemistry has its challenges. The initial costs of research and development can be high and often resistance to change may arise from established industries. Additionally, there's a need for more education and training to equip the next generation of chemists with the skills to innovate in green chemistry.

The journey towards a greener future requires collective efforts, innovative thinking and a commitment to balancing the needs of both nature and industry. By embracing green chemistry, we can pave the way for a sustainable world where prosperity and environmental preservation go hand in hand. Green chemistry offers a transformative approach to address the environmental challenges associated with traditional chemical processes. By embracing the principles of waste prevention, renewable feedstocks, safer chemicals, energy efficiency and catalysis, scientists and engineers are revolutionizing industries and driving the development of sustainable and environmentally friendly solutions. Continued research, innovation and collaboration between academia, industry and policymakers will be crucial in accelerating the adoption of green chemistry practices, paving the way for a more sustainable and prosperous future for generations to come.

About GreenChem

The Global GreenChem Innovation and Network Programme (GreenChem) aims to strengthen the sound management of industrial chemicals and their waste through better control, reduction, and/or elimination protocols, and specifically to scale up green chemistry solutions for persistent organic pollutants (POPs) and mercury replacement through capacity building, innovation, and the creation of a global green chemistry network fostering visibility, support, and implementation.

The project is funded by Global Environment Facility (GEF), implemented by the United Nations Industrial Development Organization (UNIDO) and executed by Yale University in close collaboration with governmental counterparts of six beneficiary focus countries (Indonesia, Jordan, Peru, Serbia, Uganda, and Ukraine).

In Ukraine, the Resource Efficient and Cleaner Production (RECP) Centre is the national partner in implementing “Global GreenChem Innovation and Network Programme”. Here, the Programme components:

- *Component 1. Green Chemistry Innovation and Inclusion Network for Capacity Building.* It aims at the development of a robust Global Green Chemistry Innovation and Inclusion Network, connecting collectives and individuals, including scientists, entrepreneurs, and representatives from government, industry, academia, and non-governmental organizations.
- *Component 2. Green Chemistry Accelerator Programme.* The Programme focuses on the establishment and execution of six (6) multi-year accelerator programmes, providing support and training for sustainable businesses and business ideas in the area of green chemistry, nurturing regional innovation ecosystems in the focus nations.
- *Component 3. Green Chemistry alternatives for persistent organic pollutants (POPs), and mercury for upscaling and replication.* It demonstrates green chemistry alternatives and capacities in selected chemical & waste related focus sectors.

For more information, please visit www.globalgreenchem.com and www.chemistryforsustainability.org