



SIDE PANEL

**“GREEN CHEMISTRY: INNOVATIVE APPROACHES
IN THE DESIGN FOR NEW PRODUCTS”**

under the International Conference on Chemistry, Chemical Technology and Ecology,
dedicated to the 125th anniversary of Igor Sikorsky Kyiv Polytechnic Institute

The Global GreenChem Innovation and Network Programme

AGENDA

REGISTRATION

Date: 27 September (Wednesday) 2023

Start: 15:00 (EEST)

End: 16:30 (EEST)

Format: web-based video conference via Zoom

Language: Ukrainian and English (with simultaneous interpretation)

SIDE PANEL “GREEN CHEMISTRY: INNOVATIVE APPROACHES IN THE DESIGN FOR NEW PRODUCTS”

27 September 2023, 15:00-16:30 (EEST), online via ZOOM

AGENDA

Moderator: Ms. Kateryna Romanova, Communication and Advocacy Expert of RECP, Resource Efficient and Cleaner Production Centre

Time (EEST)	Item
15:00-15:10	WELCOMING REMARKS Dr. Tetiana Dontsova, Head of the Department of Inorganic Substances Technology, Water Treatment and General Chemical Technology, National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute” Dr. Lars Ratjen, Programme Manager, Center for Green Chemistry and Green Engineering of the Yale University
15:10-15:30	THE GLOBAL GREENCHEM INNOVATION AND NETWORK PROGRAMME Dr. Lars Ratjen, Programme Manager, Center for Green Chemistry and Green Engineering of the Yale University
15:30-15:45	GREEN CHEMISTRY PRINCIPLES FOR IMPROVING THE ECOLOGICAL SAFETY OF PRODUCTION Dr. Oleksandr Khokhotva, Chemical Management Expert, Resource Efficient and Cleaner Production Centre
15:45-16:00	CHEMICAL LEASING – AN INNOVATIVE BUSINESS APPROACH Dr. Branko Dunjić, Director, Cleaner Production Centre of Serbia
16:00-16:10	INTEGRATION OF GREEN CHEMISTRY COURSE INTO THE CURRICULUM Dr. Liudmyla Vretik, Professor of the Macromolecular Chemistry Department, Faculty of Chemistry, Taras Shevchenko National University of Kyiv
16:10-16:20	FROM THEORY TO PRACTICE Dr. Dmytro Bidiuk, Co-founder, FoodBIOPack and REKAVA brands
16:20-16:30	QUESTION – ANSWER SESSION. WRAP-UP OF THE EVENT All participants

Event objectives

The event focuses on:

- Raise awareness among participants on green chemistry concept and the GreenChem Programme;
- Present the principles of green chemistry and its opportunities for safer, more sustainable chemicals and products;
- Show green chemistry case study;
- Discuss new opportunities related to green chemistry in Ukraine.

Participants

The side panel “Green Chemistry: innovative approaches in the design for new products” will be organized as part of the International Conference on Chemistry, Chemical Technology and Ecology, dedicated to the 125th anniversary of Igor Sikorsky Kyiv Polytechnic Institute, so all participants of the Conference will be invited to the event. Also, it 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.

Organizers

The event 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”.

The International Conference on Chemistry, Chemical Technology and Ecology, dedicated to the 125th anniversary of Igor Sikorsky Kyiv Polytechnic Institute will be organized by Faculty of Chemical Technology National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”.

Practical information

The side panel “Green Chemistry: innovative approaches in the design for new products” will be organized under the International Conference on Chemistry, Chemical Technology and Ecology. It will be held online on 27 September 2023 (15:00 - 16:30 EEST) using the Zoom.

The event will be held in Ukrainian and English with simultaneous interpretation.

Interested participants should register in advance by filling out the [form](#).

Background

The International Conference on Chemistry, Chemical Technology and Ecology, dedicated to the 125th anniversary of Igor Sikorsky Kyiv Polytechnic Institute will focus on issues related to topical problems of chemistry, chemical technology, ecology, materials science, modern water treatment technologies, electrochemistry, as well as the prospects for the preservation and development of Ukrainian science and industry during the war. The Conference will include plenary sessions, parallel sessions, workshops/side panels, and discussions. The International Conference will be organized

by the Faculty of Chemical Technology National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”.

In order to promote the green chemistry perspective and attract the widest possible audience to this issue, it was considered to hold the side panel “Green Chemistry: innovative approaches in the design for new products” within the framework of the International Conference on Chemistry, Chemical Technology and Ecology, dedicated to the 125th anniversary of Igor Sikorsky Kyiv Polytechnic Institute.

Green Chemistry has been one of the most noteworthy advancements in the chemical sciences of late and is recognised worldwide to describe the development of more sustainable chemical products and processes. Green Chemistry focuses on the development and application of chemicals with inherently benign and beneficial properties at all stages of their life cycles. Its purpose is not simply to reduce pollution through the elimination of hazards associated with chemical, reagents, solvents, and products, but also to ensure that sustainability is considered already in the design process for innovations in the area. The multidisciplinary nature of green chemistry is one of the keys to its success. The combination of chemistry, chemical engineering and biology are a powerful tool for meeting the challenges for developing cleaner processes.

Green Chemistry touches virtually every business sector – food, energy, plastics, cosmetics, cleaning products, pharmaceuticals, etc. Due to the nature of green chemistry, it is an essential building block and guiding principle for the development of a circular economy.

To promote uptake of green and sustainable methodologies amongst the chemical and chemical-using industries requires the exemplification of green chemistry in education and training material to influence and inspire the next generation of scientists. Modern chemists must also have knowledge of the commercialisation of science and have the ability to work effectively with people from a range of disciplines and communicate science to a wider audience.

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:

- Green Chemistry Innovation and Inclusion Network for Capacity Building 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.
- Green Chemistry Accelerator Programme focuses on the establishment and execution of six (6) multi-year accelerator programs, providing support and training for sustainable businesses and business ideas in the area of green chemistry, nurturing regional innovation ecosystems in the focus nations.
- Green Chemistry alternatives for POPs, mercury and micro-plastics for upscaling and replication demonstrates green chemistry alternatives and capacities in selected chemical & waste related focus sectors.

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).

For more information, please visit www.globalgreenchem.com