

Green and Sustainable Chemistry Innovations and Solutions

Date: Thursday 26th June, 2025

Time: 11:30 a.m. – 12:45 p.m.

Modality: Hybrid

Convened by: UNEP in collaboration with ISC3, Turi, and UNIDO

Context and Background

The International Conference on the Global Framework on Chemicals – For a Planet Free of Harm from Chemicals and Waste may adopt programmes to support the implementation of the Framework to achieve its strategic objectives, as presented in part V, “Strategic objectives and targets”. Following adoption of the Global Framework on Chemicals – For a Planet Free of Harm from Chemicals and Waste in 2023, resolution V/8 was agreed on implementation arrangements, inviting “stakeholders... to collaborate on and develop proposals for implementation programmes”. The IOMC convened a multistakeholder workshop to further this in Paris, on 24-26 February 2025. The workshop identified cross-cutting thematic workstreams that would provide support to specific industry sector programmes. Green and sustainable chemistry innovation and solutions was identified as a thematic workstreams, and along with five (5) other topics, will be addressed in a dedicated event during the GFC-OEWG Multi-Stakeholder Day.

Chemistry is the foundational science behind all materials and products that drive our modern world, making it a critical enabler of the economy. However, the chemical sector also presents significant risks, including environmental pollution, human health hazards, and unsustainable resource use. Green and Sustainable Chemistry (GSC) is a set of guiding principles that can steer decisions towards safer and more sustainable processes, alleviate the adverse impacts of the use of hazardous chemicals in various sectors and supply chains, while creating relevant opportunities for all stakeholders involved. While the GSC holds significant potential, widespread uptake has yet to occur.

Target D6 promotes measures to reduce chemical impact and input across value chains. The GSC innovations and solutions workstream is key to this and will support knowledge-sharing and analysis of existing guidance, databases, and platforms related to green chemistry and safer alternatives. It will also consider how Industry Sector Programmes can be supported to advance green and sustainable chemistry solutions.

Session Objectives

This event aims to inform stakeholders on the importance of GSC in the implementation of GFC, and account for the multistakeholder and multisectoral role of GFC that can facilitate its uptake, with a focus on three core objectives:

- Outcome 1: Shared understanding and alignment,
- Outcome 2: Increased awareness and knowledge exchange and,
- Outcome 3: Stakeholder engagement and commitment to action.

Agenda

Time	Program
11:30 – 11:45	Welcome & Introduction to the Session Briefly introducing GSC in the context of the GFC. Moderator: Baskut Tuncak, Executive Director of the Massachusetts Toxics Use Reduction Institute (TURI)
11:45 – 12:05	Ongoing and Emerging Initiatives Panel discussion aiming to briefly showcase examples where GSC principles have been successfully implemented by various stakeholders Speakers: • GSC and its potential to address existing issues (Paul Anastas, Yale University (online)) • Adaptation and adoption of GSC principles in policy (Keima Gardiner, Trinidad and Tobago) • Implementation of GSC principles in a financially sustainable manner (Chris Wallace, ICCA) • Role of international organizations in promoting and upscaling GSC (Anna Becker, ISC3 and Evelyn Swain, GEF) • Role of youth in promoting and upscaling GSC (Shannon Eileen Lisa, Major Group for Children and Youth)
12:05 – 12:45	Co-creating the Next Steps Brainstorming with the audience on the co-creation of the thematic workstream on Green and Sustainable Chemistry Speakers: Audience
12:45 – 12:50	Wrap up and Final Remarks