



Green Chemistry Train the Facilitator Workshops

AGENDA

REGISTRATION

Dates: 6, 7, 8, 13, 14 August 2024

Format: online

Languages: English (simultaneous interpretation into Ukrainian is provided)





Day 1
6 August 2024

ЧАС	ТЕМА
13:30 – 13:40	Welcome, Introduction & Agenda
13:40 – 14:30	Session I: Getting to know each other 1. What is Sustainability for you? 2. What is Green Chemistry for you?
14:30 – 16:00	Session II: Sustainability, Chemistry & Green Chemistry 1. Sustainability – What it's all about 2. Planetary boundaries and Socio-Economic Trends 3. Society, Economy & the Environment as ONE System 4. Sustainability in Businesses – Conviction vs. Profit 5. Green Washing a case for Green Chemistry 6. Reporting and Measuring Sustainable Actions: a. Life Cycle Assessment b. Circular Economy 7. Definitions, Examples & Exercises
16:00 – 16:15	Break
16:15 – 17:30	Session III: Sustainability, Chemistry & Green Chemistry 1. Sustainability and chemistry 2. The purpose of chemistry 3. Accidents and Unintended Consequences 4. The status quo of chemistry 5. The need for a different chemistry – Green Chemistry
17:30 – 18:15	Keynote: Green Chemistry & Business Standalone Talk about Green Chemistry and Business Differences and Synergies with CleanTech & ClimateTech
18:15 – 18:30	Summary, Q&A





Day 2
7 August 2024

ЧАС	ТЕМА
14:00 – 15:30	Session I: Twelve Principles in Detail 1-4 1. Waste Prevention a. Metrics: Yields vs. E-Factor & PMI 2. Atom Economy b. Metrics: Atom Economy 3. Less Hazardous Chemical Synthesis 4. Designing Safer Chemicals
15:30 – 15:45	Break
15:45 – 17:00	Session II: Twelve Principles in Detail 5-8 5. Safer Solvents & Auxiliaries 6. Design for Energy Efficiency c. Energy intensity and energy efficiency 7. Use of Renewable Feedstocks d. Metrics: Carbon Footprint & CO2 Production 8. Reduce Derivatives
17:00 – 18:15	Session III: Twelve Principles in Detail 9-12 9. Catalysis e. Metrics: Selectivity 10. Design for Degradation f. Metrics: LCA 11. Real-time Pollution Prevention 12. Safer Chemistry for Accident Prevention
18:15 – 18:30	Summary, Q&A





Day 3
8 August 2024

ЧАС	ТЕМА
14:00 – 15:30	Session I: Green Chemistry is Benign by design 1. Hazard and Risk – Past and Present 2. Toxicology as a cornerstone for Green Chemistry 3. Discussion 4. Benign by Design 5. Assessing Hazards and Exposure 6. Molecular Design and QSAR 7. QSAR-Quantitative Structure Activity Relationship 8. Molecular Design Research Network (MoDRN)
15:30 – 15:45	Break
15:45 – 17:15	Session II: Green Chemistry, the Society and beyond 1. Why do Green Chemistry? 2. Green Chemistry as a vehicle for Change 3. International Conventions as global Success Stories a. Montreal Protocol b. Stockholm c. Basel d. Minamata 4. Persistent organic Pollutants (POPs) & Globalgreenchem
17:15 – 17:30	Summary, Q&A





Day 4

13 August 2024

ЧАС	ТЕМА
14:00 – 15:30	Session I: From Theory to Practice <ol style="list-style-type: none">1. Implementation: Why, What, and How2. Understanding Context<ol style="list-style-type: none">a. Green Chemistry in the Marketplace3. Identify Opportunities<ol style="list-style-type: none">a. Life Cycle and Green Chemistry Principles as a Guide4. Delivering Innovation5. Green Chemistry Strategies at All Stages<ol style="list-style-type: none">a. Green Chemistry Assessment Tool6. How to Proceed: Moving Forward
15:30 – 16:30	Session II: Green Chemistry in Ukraine <ol style="list-style-type: none">1. Presentation 20 mins2. Presentation 20 mins3. Presentation 20 mins
16:30 – 16:45	Break
16:45 – 18:15	Session III: Green Chemistry Innovation <ol style="list-style-type: none">1. Transformative Innovation<ol style="list-style-type: none">a. What is it that we really want?2. Nature as an Inspiration<ol style="list-style-type: none">a. Design Challenges3. Biomimicry<ol style="list-style-type: none">a. Colourb. Adhesivesc. Self-Cleaning4. There is Still More We Can Learn from Nature
18:15 – 18:30	Summary, Q&A





Day 5

14 August 2024

ЧАС	ТЕМА
14:00 – 15:20	Session I: Sustainable Business & Green Chemistry 1. What role does Green Chemistry play in business? 2. How is Green Chemistry positioned in the innovation landscape? 3. What is a way forward
15:20 – 15:30	Break
15:30 – 16:45	Session II: How to accelerate an idea to a Business? 1. Getting a Business off the ground 2. Accelerators, Incubators and others
16:45 – 18:15	Session III: Green Chemistry & Business Case Studies
18:15 – 18:30	Summary, Q&A

