

	Plug product	Identification: Trainevo-FicheProd-01
		Revision date: 06/2022
		Version No.: 01

Seminar:

**What is the future for an eco-friendly chemistry? :
Understanding and implementation of the Principles of the Green Chemistry and the associated metric means towards biological chemistry**

The training will address the 12 Principles of Green Chemistry allowing the development of eco-friendly processes for obtaining ingredients with low environmental impact.

The strategic importance of these Principles will be presented in the context of respect for planetary boundaries, the United Nations Global Compact for the Environment and the main actions already put in place to respect our planet.

The main metrics associated with these Principles will be detailed to be able to develop new processes or improve existing processes with low environmental impact, the objective being to move closer to biological chemistry.

Finally, an update on the implementation of these Principles will be presented with academic and industrial examples and the consequences on the life cycle of products.

This seminar will be led by Michel Philippe who, after a PhD at the Institute of Chemistry of Natural Substances of Gif-sur-Yvette on new saccharide derivatives in the field of antibacterial compounds and immunostimulating agents, worked for 36 years at L'Oréal as head of sustainable innovation, then expert advisor in eco-design, green chemistry, and naturalness. As an AFNOR/ISO member, he also participated in the drafting of ISO 16128-1.2 standards on the terminology and criteria of naturalness in cosmetics involving the principles of green chemistry.

Target audience

R&D Manager, Innovation Manager, Production Manager, any chemist person or not, interested in chemistry and/or the environment, wishing to understand the future of chemistry respectful of the Planet.

Prerequisites: na

Reference:	Category:	Duration:
Trainevo-092022-RSE0 6	Eco-design	7 Hours
Language(s):	Training organization:	Number of participants (min):
French / English	Trainevo	5

Objective(s)

- ✓ Understand the the stakes of respecting planetary boundaries.
- ✓ Discover or review in depth the 12 Principles of Green Chemistry.

Trainevo SARL-S

Address: 19 rue de l'industrielleL-6089, Bertrange

Such: +352 20 60 11 27

Email : info@trainevo.lu

Site: www.trainevo.lu

	Plug product	Identification: Trainevo-FicheProd-01
		Revision date: 06/2022
		Version No.: 01

- ✓ Integrate the objectives of each of these 12 Principles.
- ✓ Deepen the metrics adapted to the Key Principles
- ✓ Reflect on case studies so that you can carry out your own assessment
- ✓ Perspectives for the future from eco-friendly chemistry to biological chemistry

Program

Module #1: RESPECT FOR PLANETARY BOUNDARIES THROUGH ECODESIGN AND BIOINSPIRATION

Module #2: THE PRINCIPLES OF GREEN CHEMISTRY AND THEIR METRICS TOWARDS BIOLOGICAL CHEMISTRY

Module #3: INDUSTRIAL EXAMPLES – EVALUATION OF COMPLIANCE WITH GREEN CHEMISTRY PRINCIPLES

Module #4: SACCHARIDES: KEY MOLECULES FOR GREEN AND BIOLOGICAL CHEMISTRY

Module #5: ENZYMES: FROM GREEN CHEMISTRY TO SYNTHETIC BIOLOGY

Method

The purpose of the training is to promote exchanges as much as possible throughout the various presentations.

These exchanges will come from questions from the audience that can be asked at any time during the presentation. They will also come from general questions from the trainer in order to highlight the information – key.

Industrial case studies will also be proposed to participants for a better understanding and acquisition of the concepts covered.

The materials of the presentations will be given to the participants in the form of pdf files.

Evaluation

Participants will be able to evaluate the training by highlighting the points to be deepened and proposing possible new points to be addressed whether they are on the form or the substance of the training.

A certificate of participation will be issued at the end of the seminar.

Trainevo SARL-S

Address: 19 rue de l'industrielle-6089, Bertrange

Such: +352 20 60 11 27

Email : info@trainevo.lu

Site: www.trainevo.lu