

GreenChemAfrica is a leading educational program dedicated to promoting sustainable and green chemistry across Africa.

It focuses on advancing environmentally friendly chemical processes, innovative materials, and solutions for a greener future while fostering a deeper understanding of sustainable practices and their applications in research and industry.

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GreenChemAfrica School

African Training School on Green Chemistry and Environmental Sustainability

20th – 25th April 2025
Benguerir, Morocco

Green Chem Africa
2nd Edition

PROGRAM AND COURSE OUTLINE

Sunday, April 20th, 2025

09.00-13.00 Arrival and Registration

13.00-14.00 Lunch

14.00-15.30 Free Time

15.30-15.45 Opening words-UM6P president (*Mr. Hicham El Habti*)

15.45-16.00 Guidelines and Safety instructions (*Ms. Manal Outtaouchi*)

Track 1: Introduction to Green Chemistry

16.00-17.15 Green Chemistry: History and Introduction (*Prof. John Warner*)

17.15-17.45 Break

17.45-19.30 Green Chemistry Principles And Practice (*Prof. Youssef Habibi*)

19.30-21.00 Dinner + Round Table: Changing Chemistry Education:

Building Community and Empowering Educators and Leaders (*Prof. David Laviska*)

Monday, April 21st, 2025

07.30-8.30 Breakfast

Track 2: Greening Processes/Solvents

09.00 -10.15 Phosphorus Chemistry in a Sustainable Context – Fundamentals & Challenges (*Prof. Jan Weigand*)

10.15-11.30 Molecular design for green chemistry (*Prof. Philip Jessop*)

11.30-11.45 Break

11.45-13.00 Biomimicry and biomaterials (*Prof. John Warner*)

13.00-16.00 Lunch/Free Time

16.00-17.15 Green Solvents (*Prof. Philip Jessop*)

17.15-17.45 Break

17.45-19.30 Creativity and Invention – Workshop (*Prof. Philip Jessop*)

19.30-21.00 Dinner / Round Table: The Pomacle-Bazancourt refinery: History, activities, and synergies in a biorefinery (*Prof. Florent Allais*)

Tuesday, April 22nd, 2025

07.30-8.30 Breakfast

Track 3: Greener Synthetic Strategies Part 1

09.00-10.15 Green and Step-Economical Transformation of Natural polyphenolics. (*Prof. Arun Sinha*)

10.15-11.30 Strategies for Greener Research Part 1 (*Prof. David Laviska*)

11.30-11.45 Break

11.45-13.00 Strategies for Greener Research Part 2 (*Prof. David Laviska*)

13.00-15.30 Lunch/Free Time

15.30-16.45 Atmospheric Fate of Organic Compounds: Impact on Air Quality and Climate (*Prof. Wahid Mellouki*)

16.45-17.00 Break

17.00-18.15 Closing The Loop of Phosphate Production: From Rock to Plant-Part 1 (*Prof. Jingxu Yang*)

18.15-19.30 Phosphorus-based cathode materials: From laboratory to factory-Part 2 (*Prof. Jingxu Yang*)

19.30-21.00 Dinner/Round Table: OCP Africa's Pathway to Climate-Smart Agriculture and Green Innovations (*Dr. Sara Dahhani*)

Wednesday, April 23rd, 2025

07.30-8.30 Breakfast

Track 4: Greener Synthetic Strategies Part 2

09.00-10.00 Supramolecular Chemistry as Background for Solvent Extraction (*Prof. Jan Weigand*)

10.00-11.00 Recycling of Critical Metals: Challenges and Opportunities (*Dr. Marco Wenzel*)

11.00-11.15 Break

11.15-12.15 Advanced Phosphorus Recycling Strategies – Towards a Circular Economy (*Prof. Jan Weigand*)

12.15-13.15 Innovative Strategies for Metal Recovery and Upcycling (*Dr. Marco Wenzel*)

13.15-15.00 Lunch/Free Time

15.00-16.00 Greener polymerization strategies and high-tech applications (*Prof. Glenn Hurst*)

16.00-17.00 Choosing the greenest synthesis (*Prof. Philip Jessop*)

17.00-18.00 Free Time

18.00-18.30 Gathering and Departure

19.30-22.00 Gala Dinner

Thursday, April 24th, 2025

07.30-8.30 Breakfast

Track 5: Feedstock and Recycling

09.00-10.00 From waste to wealth: Waste Valorization for a Sustainable Society (*Prof. Glenn Hurst*)

10.00-11.00 A sustainable approach of biobased polymers (*Dr. Sylvain Caillol*)

11.00-11.15 Break

11.15-12.15 Waste as a problem and as a resource (*Prof. James Clark*)

12.15-13.15 Biorefinery in action (*Prof. Glenn Hurst*)

13.15-15.15 Lunch/Free Time

15.15-16.30 Greener Products (*Prof. James Clark*)

16.30-16.45 Break

Track 6: Life Cycle Assessments (LCA) of chemical reactions and modeling

16.45-19.00 Introduction to Life Cycle Assessment (LCA) methodology (*Prof. Daniele Cespi*)

19.00-21.00 Dinner/Round Table: Policy and Legislation Relevant to Green Chemistry (*Prof. James Clark*)

Friday, April 25th, 2025

07.30-8.30 Breakfast

Track 6: Life Cycle Assessments (LCA) of chemical reactions and modeling

09.00-10.15 LCA of chemical products (*Prof. Daniele Cespi*)

10.15-10.30 Break

10.30-11.45 Build your LCA of chemical product: working groups (*Prof. Daniele Cespi*)

11.45-13.00 Build your LCA of chemical product: working groups (*Prof. Daniele Cespi*)

13.00-15.30 Lunch/Free Time

15.30-17.00 Student Presentations (*Results*)

17.00-18.00 Ceremony

18.00-18.30 Check out and Departure