

JULY 7-JULY 11, 2025 – IN PERSON AND ONLINE



# XVII International Postgraduate Summer School on Green Chemistry

Organized by **Green Science for Sustainable Development Foundation**  
in Collaboration with **Phosagro**

**7th-11th July 2025**  
**Venice, Italy**

Organizers:  
**Francesco Trotta** Chairman  
**Fabio Aricò**  
**Aurelia Visa**  
**Mirabbos Hojamberdiev**  
**Graziana Gigliuto** Secretary

Topics:  
**Benign synthesis routes**  
**Green catalysis**  
**Alternative solvents**  
**Renewable and green raw materials**  
**Green chemistry for energy**  
**Clean processes**  
**Green Chemistry education**  
**Sustainable Polymers**

Ca' Foscari University of Venice  
Aula Gradoni, Santa Marta  
Dorsoduro 2137  
Venice

Info:  
[www.greenchemistry.school](http://www.greenchemistry.school)  
[www.gssd-foundation.org](http://www.gssd-foundation.org)

Contacts:  
[postmaster@pec.gssd-foundation.org](mailto:postmaster@pec.gssd-foundation.org)  
[secretariat@gssd-foundation.org](mailto:secretariat@gssd-foundation.org)

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**JULY 7-JULY 11, 2025 – IN PERSON and  
ONLINE**

**REPORT**

**XVII INTERNATIONAL  
POSTGRADUATESUMMER SCHOOL  
ON GREEN CHEMISTRY**

**7<sup>th</sup> July-11<sup>th</sup> July 2025, IN PERSON and  
ONLINE**

**<https://www.greenchemistry.school/>**





GREEN SCIENCES  
FOR SUSTAINABLE  
DEVELOPMENT  
FOUNDATION

17th Edition of the Green Chemistry Postgraduate Summer School 2025

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## FOREWORDS

The **XVII International Postgraduate Summer School on Green Chemistry** was held in **hybrid mode**, both **online and in person in Venice**, from **7 to 11 July 2025**.

This Summer School is an international initiative conceived and organized by the **Green Sciences for Sustainable Development (GSSD) Foundation** ([www.gssd-foundation.org](http://www.gssd-foundation.org)), a non-profit organization established in **February 2020** and based in **Venice, Italy**.

The GSSD Foundation launched a commendable initiative in this edition by offering **financial support to students from developing countries**, enabling them to attend the Summer School either in person or online. The selection process was based on **scientific merit**, ensuring that talented individuals could benefit from this unique opportunity regardless of their financial or geographical circumstances. The goal of this initiative was to **promote sustainable development and empower young scientists**, while also encouraging **cross-cultural exchange** and **collaborative learning**—fostering a more inclusive and dynamic scientific community.

For the first time, the School was organized in collaboration with **PhosAgro**, one of the world's largest producers of phosphate-based fertilizers. PhosAgro, known for its environmentally friendly and safe production practices, which supports sustainable agriculture. The company's participation in this initiative highlights the vital **collaboration between academia and industry**, a cornerstone in the advancement of green chemistry and the development of sustainable solutions.

We firmly believe that such partnerships are essential to shaping a **greener, more innovative future**. The GSSD Foundation expresses its sincere gratitude to all sponsors, Sasol, International Union of Pure and Applied Chemistry (IUPAC) and Organisation for Prohibition of Chemical Weapons (OPCW) for supporting this important educational initiative. Their contribution underscores the principle that **science is a universal language**, transcending borders and uniting people in the pursuit of a better world.

This **17th edition** of the Summer School follows the successful legacy of 16 previous editions. The in-person component took place at the **“Gradoni” classroom of Ca' Foscari University of Venice**, with **40 students** and **22 lecturers** attending onsite, and an additional **35 students** participating online.

The event was **chaired by Prof. Francesco Trotta**, President of the Green Sciences for Sustainable Development Foundation.

The **Organizing Committee** included **Prof. Fabio Aricó** from Ca' Foscari University of Venice (Italy), **Dr. Aurelia Visa** from the Romanian Academy "Coriolan Drăgulescu" Institute of Chemistry in Timisoara (Romania), **Prof. Mirabbos Hojamberdiev** from the Mads Clausen Institute, University of Southern Denmark in Sønderborg (Denmark), **Dr. Graziana Gigliuto** from the Green Sciences for Sustainable Development Foundation (Italy), and **Dr. Aleksander A. Antonov**, Director of the Department of International Development & Projects at PhosAgro.

## INTRODUCTION

The XVII International Postgraduate Summer School on Green Chemistry Postgraduate brought together 75 young scholars from across the world for an intensive five-day program from July 7<sup>th</sup> to July 11<sup>th</sup>, 2025.

The Summer School was founded by Professor Pietro Tundo in 1998, his extensive career as a scientist and educator has left a profound impact on generations of students and scientists worldwide who had the privilege of knowing and working with him. In recognition of his contributions, the board of the Green Science for Sustainable Development Foundation decided to continue his legacy by continuing to organize this highly regarded international summer school.

Reflecting Professor Tundo's vision, the event was guided by his belief: *“Green Chemistry can be seen as the branch of Chemistry that directly addresses the needs of humanity. It is a future-oriented discipline that seeks to align chemical research with societal needs. Therefore, we need as many new and innovative proposals as possible from both pure and applied research to find the best solutions.”*

The primary goal of the Summer School was to offer its students the knowledge and skills in chemistry and related fields necessary to drive positive change in their communities. These students are envisioned as ambassadors of Green Chemistry, promoting its principles within their institutions, countries, and among their peers, and forming international networks of scientists. The school facilitated a fruitful exchange of ideas and information among students, instructors, and various stakeholders, fostering long-lasting scientific relationships.

The curriculum covered a range of topics, including benign synthesis routes, green catalysis, alternative solvents, renewable and green raw materials, green chemistry for energy, clean processes, green chemistry education, and sustainable polymers. Among the new highlights of the 2025 Edition were a seminar on green metrics, a lecture on agrochemicals, and a session on energy transition. Participants attended daily lectures delivered by experts, enhancing their understanding of these critical areas.

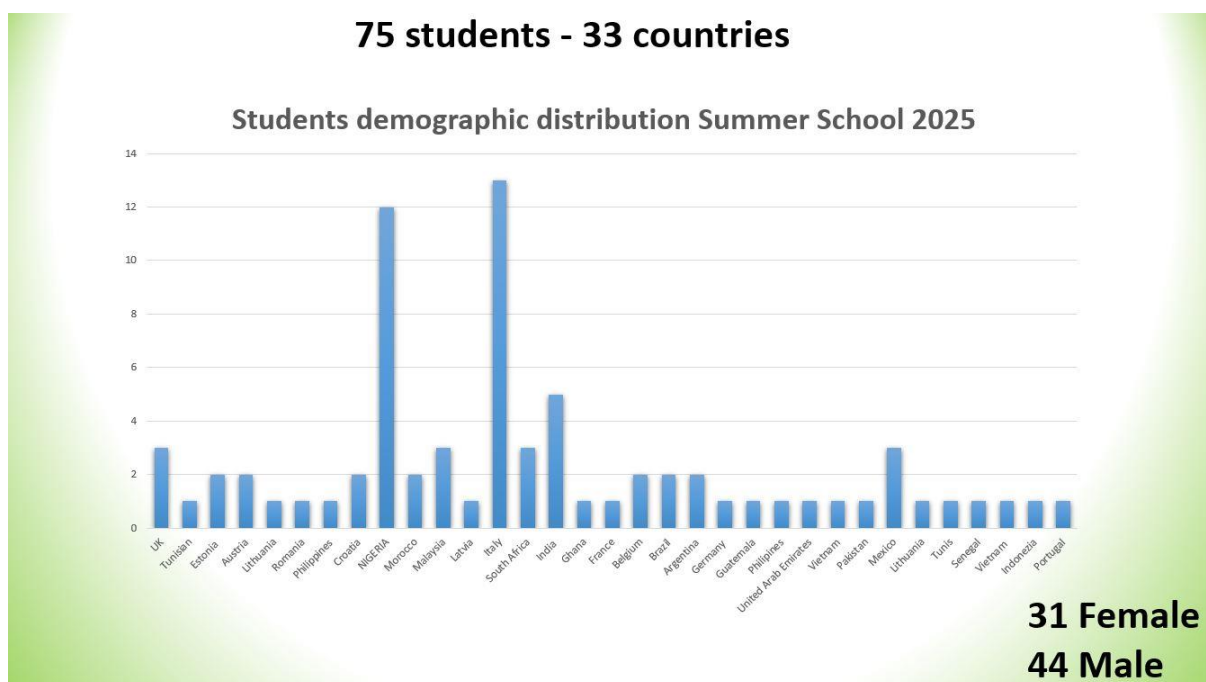
The program attracted participants from 33 countries, creating a vibrant environment for scientific and cultural exchanges. Over the five days of this hybrid event, the 75 participants had the opportunity to listen to 26 talks by experts, sponsors, and institutional representatives. Additionally, 32 posters were presented in two sessions for on-site students, complemented by 14 online posters.

Participants concluded the program with enhanced green chemistry skills, a deeper understanding of global challenges, and a robust peer network. Feedback was overwhelmingly positive, with many attendees appreciating the program's comprehensive approach and the chance to learn alongside their colleagues.

In conclusion, the XVII International Postgraduate Summer School on Green Chemistry was a resounding success, providing participants with invaluable experience and knowledge.

A detailed list of instructors can be found at <https://www.greenchemistry.school/>.

***Students' demographic distribution and gender distribution of the 17<sup>th</sup> Edition of the International Postgraduate Summer School on Green Chemistry***



## SUMMER SCHOOL COMMITTEES

### CHAIR OF THE SUMMER SCHOOL

- **Francesco Trotta**, *President of Green Sciences for Sustainable Development Foundation, Venice, Full Professor of Industrial Chemistry, University of Turin, Italy*

### ORGANIZING COMMITTEE

- **Prof. Fabio Aricó**, Ca' Foscari University of Venice, Italy
- **Dr. Aurelia Visa**, Romanian Academy "Coriolan Drăgulescu" Institute of Chemistry, Timisoara, Romania
- **Prof. Mirabbos Hojamberdiev**, Mads Clausen Institute, University of Southern Denmark, Sønderborg, Denmark
- **Dr. Graziana Gigliuto**, Green Sciences for Sustainable Development Foundation, Italy
- **Dr. Aleksander A. Antonov**, Director, Department of International Development & Projects, PhosAgro

### INTERNATIONAL JURY FOR THE POSTER SESSIONS IN PRESENCE AND ONLINE FOR THE “Green Sciences for Sustainable Development Foundation Awards”

**Coordinator of the Posters Evaluation: Aurelia Visa**, *Romanian Academy "Coriolan Drăgulescu" Institute of Chemistry – Timisoara, Romania*

- **Alberto Figoli**, *Director of the Institute on Membrane Technology of the National Research Council of Italy, ITM-CNR*
- **Eduardo Garcia-Verdugo Cepeda**, *Professor at University Jaume I, Castellon, Spain*
- **Marcello Baricco**, *Department of Chemistry and NIS – INSTM University of Turin, Italy*
- **Jonathan Forman**, *Science and Technology Advisor in the Global Security Technology and Policy Group under the National Security Directorate of Pacific Northwest National (PNNL), United States*
- **Christopher Brett**, *Full professor of chemistry, University of Coimbra, Portugal*
- **Philip Jessop**, *Full Professor and Canada Research Chair of Green Chemistry at the Department of Chemistry, Queen's University in Kingston, Canada*
- **Luigi Vaccaro**, *Full Professor of Organic Chemistry, Università degli Studi di Perugia, Italy*
- **Vânia Zuin Zeidler**, *Professor at Institute of Sustainable Chemistry, School of Sustainability, Leuphana University of Lüneburg, Germany*
- **Maia Sokolova**, *Scientific officer, B1 – Chemistry Unit, Directorate of Prioritization and Integration, European Chemical Agency, Helsinki, Finland*
- **Marco Sangermano**, *Professor at Politecnico di Torino Department of Applied Science and Technology, Turin, Italy*
- **Alberto Cugnetto**, *Expert in Viticulture and Enology, Academy of Agriculture of Turin, Italy*
- **Anamaria Todea**, *Professor at Politehnica University Timișoara, Romania*



## SUMMER SCHOOL 2025

The School was held in collaboration with the academic institution of Ca' Foscari University of Venice and University of Turin.

The event was endorsed by UNESCO Chair Aid4GEA, by the Gruppo Interdivisionale di Green Chemistry of Società Chimica Italiana (SCI), by the Romanian Academy "Coriolan Drăgulescu" Institute of Chemistry, by Mads Clausen Institute, University of Southern Denmark and Data-centric Environmental Studies Center.

The Summer School was sponsored by PhosAgro-Russia, the Organization for the Prohibition of Chemical Weapons-OPCW, the International Union of Pure and Applied Chemistry (IUPAC), and Sasol-South Africa.

Thanks to the participation of these Sponsors, 10 postgraduate students attending in presence and online coming from developing countries have been awarded scholarships.

This year, the number of applications coming from developing countries students was 100. During a strict selection made in March by the Organizing Committee, the scholarship applicants were evaluated based on their CVs, their list of publications, the recommendation letters from their Tutors, and their motivations to attend the Summer School 2025.

**The total number of students attending the 17<sup>th</sup> IPSSGC 2025 was 75;** 40 of them were in-person in Venice and 35 students were online, coming from 33 different countries.

The rigorous selection of the participants contributed to forming a class of high cultural level students, who certainly find themselves at a point in their life where they are ready to invest their talents and scientific know-how for their future professional careers maturely and responsibly. The top-level and diverse range of lectures offered at the Summer School, provided them the chance to look around, exchange their scientific knowledge, and establish important links with other participants and professors for fruitful joint projects and research activities.

Green Chemistry has proven to be a compelling field for young scientists, as demonstrated by the Summer Schools held from 1998 to 2025, with over 1500 students participating. This interest is evident as around 6 alumni have returned as teachers, showing the program's significant impact on their careers and their commitment to the field. Green Chemistry's interdisciplinary nature provides a unique perspective, encouraging students to think creatively about sustainable solutions. The Summer Schools offer a valuable opportunity for students to explore various scientific disciplines and understand the importance of environmentally responsible practices.

**The Summer School hosted 7 lecture sessions and 2 poster sessions on the following main topics:**

- **Renewable and green raw materials**
- **Green Catalysis**
- **Alternative solvents**
- **Benign synthesis routes**
- **Sustainable Polymers**

- **Green chemistry for energy**
- **Clean Processes**
- **Green Chemistry Education**

**After the Summer School, all participants received a certificate of attendance.**

This Summer School held in person and remotely, was joined in person and online for those who cannot come to Venice yet. We engaged the participants with the outstanding scientific quality of the teachers, involving them in the discussion of the lectures and, not less importantly, through the poster sessions.

From the outcomes of these hybrid Summer Schools, the GSSD Foundation has learned how to manage future events, which they hope will become a permanent feature in Venice due to their long-standing tradition and high scientific value.

Among various Summer Schools and similar educational events, the Green Chemistry Summer School in Venice stands out as a model of good practice for several reasons. First, the careful selection process ensures a class of top international students passionate about green chemistry and eager to contribute to its research. Second, the program attracts an exceptionally high caliber of teachers, including Nobel Prize winners and top-ranked global scientists. Third, the unique setting of Venice adds a profound dimension to the school, as the city itself is a symbol of sustainability and resilience, offering a fitting backdrop for discussions on environmental stewardship.

During the XVII International Postgraduate Summer School on Green Chemistry in 2025, the teachers provided an in-depth overview of their current scientific work over the five days of the program. They also evaluated the students' research, offering valuable feedback and suggestions for improvement, further enhancing the educational experience.

## THE SUMMER SCHOOL 2025 PROGRAMME

### MONDAY 7 JULY MORNING

#### OPENING CEREMONY-

#### REGISTRATION IN THE EVENT

##### Presenters:

**Francesco Trotta**, Chairman of the Green Chemistry Summer Schools and President of GSSD Foundation, University of Turin.

**Letter from Luigi Brugnaro**, Major of Municipality of Venice

**Video message from Siroj Loikov**, First Deputy CEO PJSC PhosAgro.

**Fabio Aricò**, Board Member GSSD Foundation, Ca' Foscari University of Venice.

**Graziana Gigliuto**, Green Sciences for Sustainable Development Foundation, Venice.

### MONDAY 7 JULY AFTERNOON

#### 1<sup>st</sup> LECTURES SESSION:

Moderator: **Fabio Aricò**, *Full Professor of Organic Chemistry, Ca' Foscari University of Venice, Italy*

**Christopher Brett**, *Full professor of chemistry, University of Coimbra, Portugal*

**Deep eutectic solvents and electrochemical applications: a green materials approach**

Moderator: **Fabio Aricò**, *Full Professor of Organic Chemistry, Ca' Foscari University of Venice, Italy*

**Alberto Figoli**, *Director of the Institute on Membrane Technology of the National Research Council of Italy, ITM-CNR*

**Toward a more Sustainable Membrane Fabrication**

Moderator: **Fabio Aricò**, *Full Professor of Organic Chemistry, Ca' Foscari University of Venice, Italy*

**Giacomo Trapasso**, *Researcher Ca' Foscari University of Venice, Italy*

**Metrics for green syntheses: two case studies in biorefinery**

Moderator: **Fabio Aricò**, *Full Professor of Organic Chemistry, Ca' Foscari University of Venice, Italy*

**Aurelia Visa**, *Senior Researcher Romanian Academy "Coriolan Drăgulescu" Institute of Chemistry, Timisoara, Romania*

**Greener approaches to the synthesis and application of Metal-Organic Frameworks**

## TUESDAY 8 JULY MORNING

### SPONSORS and INSTITUTIONS

#### Presenters:

**Alexander Antonov**- Director Department PJSC PhosAgro International Projects

#### 3<sup>rd</sup> LECTURES SESSION:

Moderator: **Francesco Trotta**, *Professor at the Department of Chemistry, University of Turin, Italy*  
**Philip Jessop**, *Full Professor and Canada Research Chair of Green Chemistry at the Department of Chemistry, Queen's University in Kingston, Canada*

**How Chemists Can Use Life Cycle Assessment to Guide Our Research**

Moderator: **Francesco Trotta**, *Professor at the Department of Chemistry, University of Turin, Italy*  
**Marcello Baricco**, *Department of Chemistry and NIS – INSTM University of Turin, Italy*  
**Hydrogen for Energy Transition**

Moderator: **Aurelia Visa**, *Senior Researcher Romanian Academy "Coriolan Drăgulescu" Institute of Chemistry, Timisoara, Romania*

**Eduardo Garcia-Verdugo Cepeda**, *Professor at University Jaume I, Castellon, Spain*  
**Que c'est verte Venice**

Moderator: **Aurelia Visa**, *Senior Researcher Romanian Academy "Coriolan Drăgulescu" Institute of Chemistry, Timisoara, Romania*

**Fabio Aricò**, *Full Professor of Organic Chemistry, Ca' Foscari University of Venice, Italy*  
**The reactions of Organic Carbonates**

## TUESDAY 8 JULY AFTERNOON

#### 4<sup>th</sup> LECTURES SESSION:

Moderator: **Giacomo Trapasso**, *Researcher Ca' Foscari University of Venice, Italy*  
**Marco Sangermano**, *Professor at Politecnico di Torino Department of Applied Science and Technology, Turin, Italy*

**Polymers and Plastics the route to sustainability**

Moderator: **Giacomo Trapasso**, *Researcher Ca' Foscari University of Venice, Italy*  
**Mirabbos Hojamberdiev**, *Professor at Mads Clausen Institute, University of Southern Denmark, Sønderborg, Denmark*

**Green Hydrogen Generation from Solar Water Splitting over Metal Oxynitrides**

**1<sup>st</sup> POSTER SESSION – 16 POSTERS**

**WEDNESDAY 9 JULY MORNING**

**SPONSORS and INSTITUTIONS**

**Green Sciences for Sustainable Development Foundation**

**Presenter:**

**Francesco Trotta- Green Sciences for Sustainable Development Foundation**

**Fabio Aricò – Green Sciences for Sustainable Development Foundation**

**5<sup>th</sup> LECTURES SESSION:**

Moderator: **Eduardo Garcia-Verdugo Cepeda**, *Professor at University Jaume I, Castellon, Spain*  
**Vânia Zuin Zeidler**, *Professor at Institute of Sustainable Chemistry, School of Sustainability, Leuphana University of Lüneburg, Germany*

**Green and Sustainable Chemistry and the Future of Food**

Moderator: **Eduardo Garcia-Verdugo Cepeda**, *Professor at University Jaume I, Castellon, Spain*  
**Peter Licence**, *Full professor and Head of Chemistry Department, University of Nottingham, United Kingdom*

**Green Chemistry Translation: A Design for Life!**

Moderator: **Mirabbos Hojamberdiev**, *Professor at Mads Clausen Institute, University of Southern Denmark, Sønderborg, Denmark*

**Polina Yaseneva**, *Senior Researcher Department of Chemical Engineering and Biotechnology, University of Cambridge, United Kingdom*

**Designing green – leveraging life cycle assessment for sustainable chemistry**

Moderator: **Mirabbos Hojamberdiev**, *Professor at Mads Clausen Institute, University of Southern Denmark, Sønderborg, Denmark*

**Maia Sokolova**, *Scientific officer, B1 – Chemistry Unit, Directorate of Prioritization and Integration, European Chemical Agency, Helsinki, Finland*

**Chemical safety through science, collaboration and knowledge**

**FREE AFTERNOON**

**SOCIAL DINNER**



## THURSDAY 10 JULY MORNING

### SPONSORS and INSTITUTIONS

International Union of Pure and Applied Chemistry (IUPAC)

Presenter:

**Buxing Han**- Professor at Institute of Chemistry, Chinese Academy of Sciences, Director of Shanghai Key Laboratory of Green Chemistry and Chemical Processes – China

### 6<sup>th</sup> LECTURES SESSION:

Moderator: **Jonathan Forman**, *Science and Technology Advisor in the Global Security Technology and Policy Group under the National Security Directorate of Pacific Northwest National (PNNL), United States*

**Luigi Vaccaro** *Full Professor of Organic Chemistry, Università degli Studi di Perugia, Italy*  
**Novel Technologies for green synthesis and catalysis**

Moderator: **Jonathan Forman**, *Science and Technology Advisor in the Global Security Technology and Policy Group under the National Security Directorate of Pacific Northwest National (PNNL), United States*

**Elisa Moretti**, *Chairholder of the UNESCO Chair AID4GEA, Professor at Ca' Foscari University of Venice, Italy*

**Aid4GEA – A bridge across the world: when hard science fertilizes sustainable development**

Moderator: **Jonathan Forman**, *Science and Technology Advisor in the Global Security Technology and Policy Group under the National Security Directorate of Pacific Northwest National (PNNL), United States*

**Anamaria Todea**, *Professor at Politehnica University Timișoara, Romania*  
**Biocatalytic strategies for green synthesis of bio-based oligoesters**

## THURSDAY 10 JULY AFTERNOON

### 7<sup>th</sup> LECTURES SESSION:

Moderator: **Aurelia Visa**, *Senior Researcher Romanian Academy "Coriolan Drăgulescu" Institute of Chemistry, Timisoara, Romania*

**Alberto Cugnetto**, *Expert in Viticulture and Enology, Academy of Agriculture of Turin, Italy*  
**Innovations in Sustainable Agriculture with a Special Focus on Wine and Viticulture**

Moderator: **Aurelia Visa**, *Senior Researcher Romanian Academy "Coriolan Drăgulescu" Institute of Chemistry, Timisoara, Romania*

**Giulia Fiorani**, *Professor at Ca' Foscari University of Venice, Italy*  
**Catalytic Strategies for Non-Reductive CO<sub>2</sub> Valorization**

Moderator: **Aurelia Visa**, *Senior Researcher Romanian Academy "Coriolan Drăgulescu" Institute of Chemistry, Timisoara, Romania*

**Andrea Spolaor**, *Researcher Institute of Polar Sciences, National Research Council of Italy, Venezia-Mestre (VE), Italy*

**The climate change in the Arctic**

## 2nd POSTER SESSION- 16 POSTERS

## FRIDAY 11 JULY MORNING

### SPONSORS and INSTITUTIONS

### ORGANISATION FOR PROHIBITION OF CHEMICAL WEAPONS (OPCW)

#### Presenter:

**Jonathan Forman**- Science and Technology Advisor Threat Prevention and Resilience Group  
Pacific Northwest National Laboratory

#### 8th LECTURE SESSION:

Moderator: Giulia Fiorani, *Professor at Ca' Foscari University of Venice, Italy*

**Francesco Trotta**, *Professor at the Department of Chemistry, University of Turin, Italy*

**Exploitation of renewable resources in Polymer Chemistry**

Moderator: Giulia Fiorani, *Professor at Ca' Foscari University of Venice, Italy*

**Jonathan Forman**, *Science and Technology Advisor in the Global Security Technology and Policy Group under the National Security Directorate of Pacific Northwest National (PNNL), United States*

**Eliminating the Chemicals of War and the Challenges of Chemical Security: Does Green Chemistry Make a Difference?**

## FRIDAY 11 JULY AFTERNOON

### CLOSING CEREMONY AND POSTER AWARDS

#### Presenters:

**Francesco Trotta**, *President of Green Sciences for Sustainable Development Foundation, University of Turin, Italy*

**Aurelia Visa**, *Senior Researcher, Romanian Academy "Coriolan Drăgulescu" Institute of Chemistry – Timisoara, Romania*

**Mirabbos Hojamberdiev**, *Technische Universität Berlin, Germany*

**JULY 7-JULY 11, 2025 – IN PERSON AND ONLINE**

**Graziana Gigliuto**, *Ca' Foscari University, Venice, Italy*

**Fabio Aricò**, *Professor of Organic Chemistry, Ca' Foscari University of Venice, Italy*

**The detailed program of the XVII International Postgraduate Summer School on Green Chemistry is available in the Book of Proceedings 2025.**

**The Proceeding Collection is available at <https://www.greenchemistry.school/>.**

## BOOK OF PROCEEDINGS 2025

**The Book of Proceedings 2025 features the comprehensive scientific content presented at the XVII International Postgraduate Summer School on Green Chemistry in 2025. This volume includes detailed abstracts of all lectures and posters showcased by the students, reflecting the latest advancements and research in the field of green chemistry.**

**The proceedings are freely accessible on our webpage <https://www.greenchemistry.school/>. However, please note that all rights are reserved by the GSSD Foundation.**

## **SPONSORS**

The Sponsors of the XVII International Postgraduate Summer School on Green Chemistry 2025 were: the International Union of Pure and Applied Chemistry (IUPAC), the Organization for the Prohibition of Chemical Weapons (OPCW), PhosAgro Industry, and Sasol Industry.

The GSSD Foundation extends a special thank you to our new collaborator, PhosAgro Industry, for their financial support for the event. We are also grateful to the International Union of Pure and Applied Chemistry (IUPAC) for sponsoring three in-person scholarships for students from developing countries, Sasol Industry (South Africa) for sponsoring one in-person scholarship for a student from a developing country and student online, and the Organization for the Prohibition of Chemical Weapons (OPCW) for sponsoring five scholarships for onsite attendance for students from developing countries and 15 scholarship for online attendance.

Thanks to the generous contributions from these Sponsors, the GSSD Foundation can support the participation of students from developing countries, enabling them to engage in this educational project and establish international connections that will benefit their future careers.

Additionally, this year the Interdivisional Group of Green Chemistry - Sustainable Chemistry of the Italian Chemical Society (SCI) has generously sponsored the attendance in presence of two Italian students, selected directly by the SCI Interdivisional Group of Green Chemistry.

The Green Sciences for Sustainable Development Foundation is seeking to establish new partnerships with leading industries in clean processes, universities, and international organizations worldwide that uphold the principles of scientific independence and global collaboration. These partnerships will help support even more students in future editions of the Green Chemistry Summer Schools.

In conclusion, the Green Sciences for Sustainable Development Foundation is grateful to all the Sponsors who have embraced the principles of sustainability and equality by supporting the XVII International Postgraduate Summer School on Green Chemistry 2025.



## POSTER WINNERS AWARDS

The scientific quality of the posters presented at the XVII International Postgraduate Summer School on Green Chemistry has significantly improved compared to previous editions. This enhancement reflects the increasing availability of high-level scientific instrumentation in underdeveloped regions and the growing focus on green chemistry research.

A total of 46 posters were presented, with 14 from online students and 32 from in-person attendees. Students showcased their research during the poster sessions held on Tuesday, July 8<sup>th</sup>, and Thursday, July 10<sup>th</sup>. Additionally, the posters from online students were made available for ongoing consultation on the website <https://www.greenchemistry.school/poster-sessions/>.

The Poster Sessions is a highlight of the Summer School, notable for the originality and diverse scientific contributions. The sessions featured a significant number of young researchers sharing their work, generating considerable interest among participants. During the poster awarding ceremony, five participants were recognized for their outstanding posters and were given the opportunity to present their work orally during the Closing Ceremony.

**There were 5 Awards: 2 for online poster presenters, and 3 for in-person presenters.**

**The 2 online Poster Award winners of the XVII International Postgraduate Summer School on Green Chemistry were:**

**Bryle Matthew Bacatan** – *Green Chemistry and Sustainability Program, Department of Chemistry, Faculty of Science, Chulalongkorn University, Thailand*

Poster title: **“Upcycling PET waste into Bimetallic Metal Organic Framework”**

**Maria-Iuliana Chirica** – *University of Bucharest, Faculty of Physics, 405 Atomistilor Street, Magurele, Romania.*

Poster title: **“Acid modified MXenes for catalytic PET depolymerization”**

**The 3 in person winners of the Poster Award of the XVII International Postgraduate Summer School on Green Chemistry were:**

**Joy Salome Dotse** – *Research Centre for Synthesis and Catalysis, Department of Chemical Science, University of Johannesburg. Kingsway Campus. Auckland Park 2006-Johannesburg, South Africa*

Poster title: **“Interaction of cellulose with a new phosphonium salt-lactic acid deep eutectic solvent: Amorphization vs Functionalization”**

**Vinicius de Paula**– *CICECO – Aveiro Institute of Materials, Department of Chemistry, University of Aveiro,3810-193 Aveiro, Portugal*

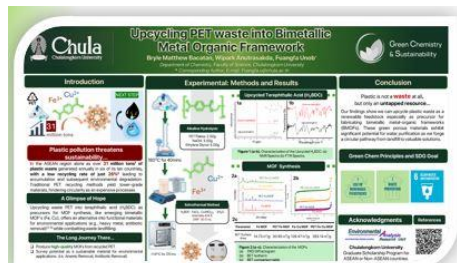
Poster title: “**Mild-condition dissolution-based recycling of ABS with renewable solvents**”

**Beatriz Chicaro** – *Department of Environmental Sciences, Informatics and Statistics, Ca’ Foscari University of Venice, Via Torino155, 30172, Venezia Mestre, Italy*

Poster title: “**Sustainable Bio-Based Epoxy Thermosets from 2,5-Furan Dicarboxylic Acid Derivates With Tunable Chain Length**”

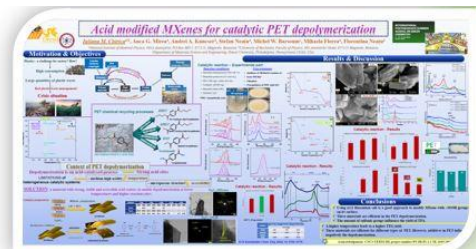
The in-presence students Awards consisted in a cash prizes (respectively two amount of 250€, and the third one assigned as honourable mention has been a gadget of Ca’ Foscari University of the value of 50€). The Awards have been handed over to the students during the closing ceremony.

The Online students Awards consists in two scholarships for in person attendance in the next Edion of the Summer School 2026 from 6<sup>th</sup> of July to 10<sup>th</sup> of July in Venice, Italy.  
The winning students presented their research work with a PowerPoint presentation during the Closing Ceremony on the last day.

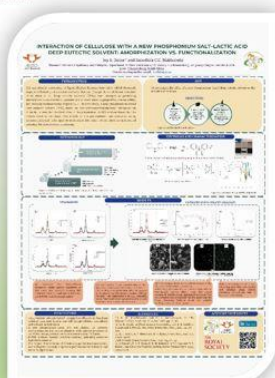


Bryle Matthew Bacatan- PHILIPINES

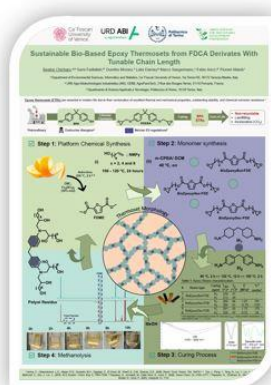
**IN PERSON & ONLINE  
Poster awards**



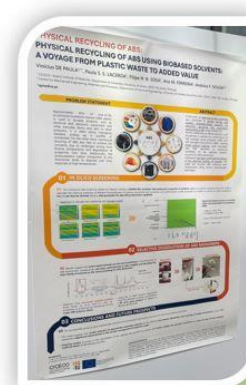
Iuliana CHIRICA, ROMANIA



Joy Salome Dotse, SOUTH AFRICA



Beatriz CHICARO, ITALY



Vinicius de Paula, PORTUGAL

## CLOSING CEREMONY

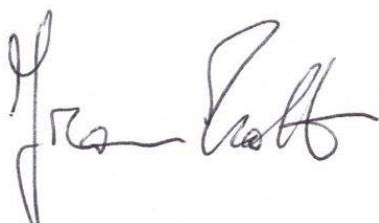
During the Closing Ceremony of the XVII International Postgraduate Summer School on Green Chemistry, the President of the Green Sciences for Sustainable Development Foundation, Prof. Francesco Trotta, presented the Poster Awards to outstanding participants. The ceremony featured remarks and presentations from the member of the Organizing Committee.

Prof. Aurelia Visa, Senior Researcher at the Romanian Academy "Coriolan Drăgulescu" Institute of Chemistry – Timisoara, Romania, shared data collected from the 17th edition of the IPSSGC 2025, highlighting the increasing number of participants in presence and the long-lasting impact of the program. Along with presenting the results of this edition, Prof. Aurelia Visa also recounted the history of the Green Chemistry Summer Schools. She highlighted how this educational event has nurtured numerous generations of students, many of whom are now established scientists and university professors.

Following Prof. Visa's presentation, three additional speakers—Prof. Mirabbos Hojamberdiev, Dr. Graziana Gigliuto, and Prof. Fabio Aricò—emphasized the importance of this event and wished the students success in their careers in green chemistry.

In conclusion, Prof. Francesco Trotta delivered the Closing Remarks, summarizing the achievements and experiences shared during the event. At the end of the ceremony, a group photo was taken, capturing the gathering of teachers, students, and all participants of the Summer School.

For more details and information, please visit the Green Sciences for Sustainable Development Foundation's website: [www.gssd-foundation.org](http://www.gssd-foundation.org).



*Signature of the Chairman of the  
Green Chemistry Summer School*

**23/07/2025, Venice, Italy**



## Group Photos of the XVII International Postgraduate Summer School on Green Chemistry

