

Winter School on Contaminants of Emerging Concern (CECs) and Disinfection By-Products (DBPs): Occurrence, Impact and Elimination

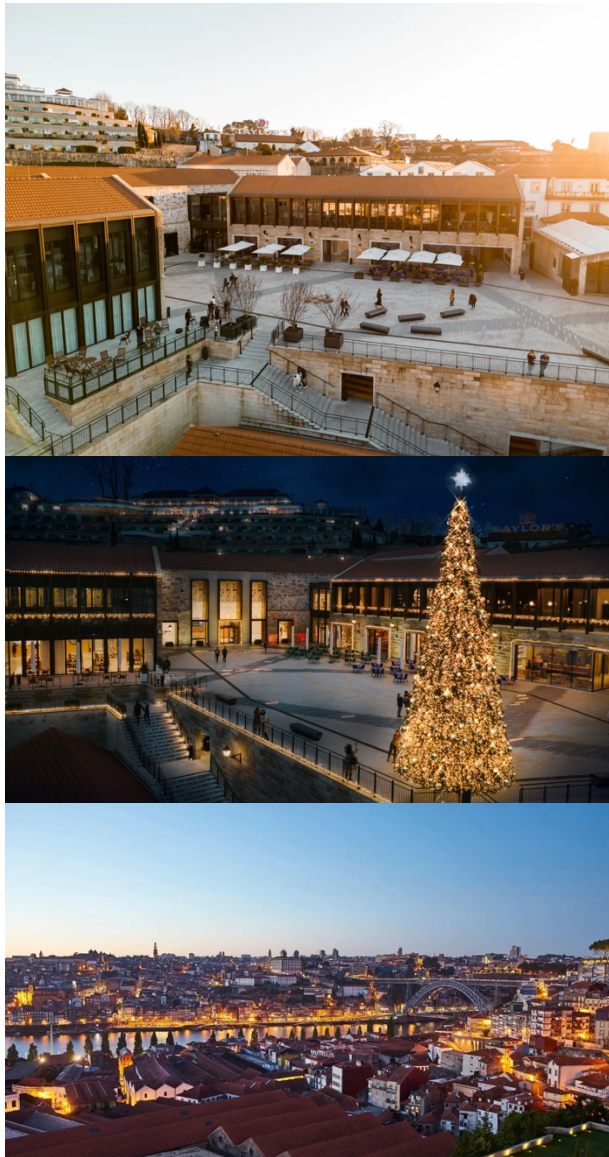
Dates: 25-26th November, 2024

Venue: **World of Wine (WOW)**, Vila Nova de Gaia, Porto, Portugal

EA3G2024 - International Conference on Ozone and Advanced Oxidation

Dates: 27-29th November 2024

Venue: **World of Wine (WOW)**, Vila Nova de Gaia, Porto, Portugal



WORLD OF WINE (WOW)

A CULTURAL DISTRICT WITH A WOW FACTOR

Rua do Choupelo, 39
4400-088, Vila Nova de Gaia, Porto
Portugal

Website: <https://www.wow.pt>

WOW is a huge new cultural district where everyone is welcome. In the historic heart of Vila Nova de Gaia, on the south bank of the River Douro, overlooking the Ribeira of Porto (Porto's Riverside) and the Luís I Bridge, just a short distance from the center of Porto, WOW pays homage to culture, history and Portugal's main industries. The project started with the restoration of old port wine cellars and aims to convey the history and feeling associated with winemaking in its many forms.

The World of Wine is a complex that houses several experiences in the so-called Wine Quarter. It consists of 7 museums, 12 restaurants, bar and café spaces, a "wine school", multiple shops, an exhibition hall, and an event space.

Winter School

In the scope of projects BlueWater, ALERT-PFAS, H2OforAll, and MAR2PROTECT, with the support of Rede NOR-WATER and ZeroPollution4Water Cluster, the Faculty of Engineering of the University of Porto, University of Coimbra and NOVA School of Science and Technology of NOVA University Lisbon are organizing a **Winter School on Contaminants of Emerging Concern (CECs) and Disinfection By-Products (DBPs): Occurrence, Impact and Elimination**.

The **Winter School** event aims to present an overview of the current state of knowledge and the latest advances regarding the occurrence, impact, and elimination of Disinfection By-Products (DBPs), Contaminants of Emerging Concern (CECs), and microbial contamination to provide solutions face to risks in providing safe drinking water and alternative water sources for crops production.

The Winter School includes: (i) a section specifically devoted to PhD students (“**Floor to Students**”) where they will have the chance to present a **poster communication**, as well as to meet experts from the School; (ii) a **workshop on Publishing Perspectives**; (iii) **workshop on European Directives on Drinking Water, Water Reuse and Urban Wastewater Treatment**; (iv) **lectures on Complementary Skills** related to high-throughput methodologies for the determination of DBPs, CECs, microplastics, ARB and ARGs, environmental and health impacts and prevention measures and, technologies for control of DBPs, CECs, microplastics, ARB and ARGs; (v) **workshop on Wastewater Treatment and Reuse**; and (vi) a **workshop on DBPs and Groundwater**; (vii) **networking Opportunities and Exhibition of water treatment related products and services**.

The **workshop on publishing perspectives** will be given by the Executive Publisher of Elsevier for Chemical and Environmental Engineering, and Executive Editors of the Journal Environmental and Chemical Engineering (Elsevier) and will feature a coffee break sponsored by Elsevier. A range of topics will be covered concerning the publication of scientific articles starting from their preparation, going through the review process, and then ending with the editorial decision and possible transfers of rejected manuscripts to alternative journals. The publisher’s, editor’s, and author’s points of view will be discussed, and the workshop will conclude with a roundtable during which questions will be taken from the audience. Master and PhD students and junior researchers are encouraged to interact with editors and publishers. Questions can be either sent before the workshop (to vilar@fe.up.pt) or asked during the roundtable. Master and PhD students and junior researchers are encouraged to interact with editors and publishers.

The **workshop on European Directives on Drinking Water, Water Reuse and Urban Wastewater Treatment**, with the participation of Water Europe, National Laboratory of Energy and Geology (LNEG) and Water and Waste Services Regulation Authority (ERSAR), will present the news and challenges regarding drinking water, wastewater treatment and reuse.

Lectures on complementary skills will be given by senior researchers, professors and professionals, with high expertise in the topics of: i) high-throughput methodologies for the determination of DBPs, CECs, microplastics, ARB and ARGs, ii) environmental and health impacts and prevention measures and, iii) technologies for control of DBPs, CECs, microplastics, ARB and ARGs (e.g., ozonation, advanced oxidation processes, membrane

filtration, adsorption, nature-based solutions), as other topics such as CFD simulation, LCA/LCC and water digitalization.

The **workshop on Wastewater Treatment and Reuse** and **workshop on DBPs and Groundwater** will include several invited talks from i) coordinators of European projects funded by Life, INTERREG, and Horizon Europe programs, presenting the project goals and main results, ii) Water utilities (Águas do Tejo e Atlântico) and companies (Suez, Xylem, USP Technologies, EFACEC, Adventech, Manaseer Group and Air Liquide), showing case studies and real applications; iii) round table discussion addressing current industry trends, challenges, or innovations.

We expect 200 participants, including PhD students, researchers, professors, and professionals from areas of environmental chemistry, and environmental and chemical engineering, from several European countries. Several water utilities have already confirmed their presence, including Águas do Porto e Energia, Águas do Tejo e Atlântico, Águas do Douro e Paiva, ERSAR, Water Europe as also several companies, Suez, Xylem, USP Technologies, EFACEC, Adventech, Manaseer Group and Air Liquide. We have an exhibition space of 100 m² for companies and water utilities.

The Winter School is a unique opportunity for all organizations concerned with any aspect covered by the event theme to enhance their presence and visibility within this community.

We would like to invite you to take part in this event and thus support the Winter School in its mission.

It will be a great pleasure for us to welcome you in the World of Wine, Vila Nova de Gaia, Porto, Portugal.

The Organizing Committee

Fees

PhD Students: 175€; Professors/Researchers: 200€; Professionals: 250€ (including access to the sessions, coffee breaks and lunches)

Number of participants

Maximum of 200

Further information and website will be available soon.

EA3G2024 Conference

EA3G2024 event aims to present an overview of the current state of knowledge and the latest advances regarding the use of Ozone and Advanced Oxidation to provide solutions face to these challenges.

Topics of interest relevant to the Conference theme include but are not limited to the combinations of:

- Reaction mechanisms, kinetics, by-products
- Ozonation
- Advanced oxidation
- Disinfection
- Ozonolysis
- Hydraulics, hydrodynamics, mass transfer, contactors
- Modelling, validation, system design
- Analytical methods
- Agri-Food production, safety and quality
- Waste, Air and Soil treatment
- Wash water, process water
- Wastewater treatment, recycling and reuse
- Ecosystem preservation
- Industrial applications
- In-field full scale applications
- Product / Process R&D
- Hybrid ozone processes
- Innovative applications
- Regulations

Program

- Scientific and technical sessions with oral and poster presentations, discussions
- Networking opportunities and Exhibition of ozone related products and services
- Technical visit of ozone plant(s)
- Conference dinner for delegates and their guests

Number of participants

Maximum of 200

Fees

Available soon

Further information and website will be available soon at

<https://www.ioa-ea3g.org>