



4th European School on

Environmental Applications of Advanced Oxidation Processes

Venue: Aristotle University of Thessaloniki, Thessaloniki, Greece

November 4 - 6, 2024

1st Announcement

The “International PhD School on Advanced Oxidation Processes” (IPS-AOP) organize the 4th European School on “Environmental Applications of Advanced Oxidation Processes” on November 4 - 6, 2024, at the Aristotle University of Thessaloniki, Thessaloniki, Greece.



In order to promote the higher education of young researchers in the environmental applications of advanced oxidation processes (AOPs), a group of scientists from different European Universities and Research Institutes, founded (in June 2014) the “European PhD School on AOPs”. Subsequently (since October 18, 2018), with the aim to make the association international, even Institutions from no EU Countries have joined the School.

Presently, the IPS-AOP includes 81 Scientific Committee members from 25 different Countries.

The School is among the initiatives organized for **IPS-AOP** PhD candidates, but other PhD students, MSc students, post-doctoral researchers and professionals are also welcome. The School program includes: (i) an overview of the most important aspects related to AOPs presented by experts of international relevance, (ii) parallel discussion groups on the topics of the day session, chaired by the respective speakers; PhD students can join the discussion group better fits their interest to discuss in more detail the topic the speaker introduced in the day session; (iii) interactive poster (**A0 size recommended - 1189 × 841 mm**) session: the speakers of the day will be in charge of a few number of posters to ask questions to the respective authors (PhD students), they will finally select 8 PhD students for a **short oral presentation (5 min)**, **among which the best poster will be awarded**; (iv) visit to a wastewater Treatment Plant of Thessaloniki, Water Supply of Thessaloniki and Water Supply Museum; (v) celebration of 10 years of the IPS-AOP.

Invited Lectures are typically of 40 min (including 5 min for questions).



Program

November 4, 2024 (1st day)

07.30-08.00 Registration

08.20-08.30 Welcome greetings

08.30-08.40 Introduction of the IPS-AOP

08.40-08.50 Short introduction of the attending PhD students

Session 1: Advances and progress in AOPs

Time	Title	Speaker
08.50-09.30	Advances and challenges in the measurement of CECs and TPs	Dimitra Lambropoulou, Aristotle University of Thessaloniki, Greece
09.30-10.10	Progress in photocatalytic materials and their applications for the treatment of wastewaters and the removal of organic contaminants	Ioannis Konstantinou, University of Ioannina, Greece
10.10-10.40	Coffee break	
10.40-11.20	Beyond AOPs with hydroxyl radicals: fundamentals and perspectives in water and wastewater treatment	Dionisis Mantzavinos, University of Patras, Greece
11.20-12.00	Technical insights from pilot studies on advanced water and wastewater treatment using hybrid AOPs	Konstantinos Plakas Centre for Research and Technology Hellas (CERTH), Greece
12.00-14.00	Lunch break	

Session 2: Basis of the AOPs

Time	Title	Speaker
14.00-14.40	Fundamentals and applications of ozonation process	Rui Martins University of Coimbra Portugal
14.40-15.20	Fundamentals, (waste)water treatment applications and perspectives of zero valent iron	Antonio Arques Universitat Politècnica de València, Spain
15.20-16.00	The application of AOPs for industrial wastewater treatment: challenges and opportunities	Isabel Oller Plataforma Solar de Almeria, Spain
16.00-16.20	Coffee break	
16.20-17.00	The future of electrochemical processes in water and wastewater treatment	Ignacio Sirés Sadornil, University of Barcelona, Spain
17.00-17.40	Parallel discussion groups on the topics of the session	Chaired by the respective speakers
17.40-18.30	Poster Session	



November 5, 2024 (2nd day)

Session 3: Application of AOPs

Time	Title	Speaker
08.50-09.30	Water/wastewater disinfection by AOPs	Inmaculada Polo Lopez, Plataforma Solar de Almeria, Spain
09.30-10.10	Conventional Vs new (photo)Fenton processes	Sixto Malato, Plataforma Solar de Almeria, Spain
10.10-10.40	Coffee break	
10.40-11.20	Scale-up and continuous operation of solar photo Fenton in raceway pond reactors for advanced treatment of urban wastewater	José Antonio Sanchez Perez Universidad de Almeria, Spain
11.20-12.00	Reactor design/modelling in photo driven AOPs	Javier Marugan, Universidad Rey Juan Carlos, Spain
12.00-14.00	Lunch break	

Session 4: Complementary skills

Time	Title	Speaker
14.00-14.40	Is your material science work/manuscript environmentally relevant? Editor's tips	Luigi Rizzo, University of Salerno, Italy
14.40-15.20	Publishing a scientific paper is a challenging task and a serious matter: tips and ethical issues	Suresh Pillai, Institute of Technology Sligo, Ireland
15.20-16.00	Ph.D. thesis: supervision strategy to increase the chance of a good career evolution of students	César Pulgarin, École Polytechnique Fédérale de Lausanne, Switzerland
16.00-16.20	Coffee break	
16.20-17.00	Short presentations (5 min each) from PhD students	
17.00-17.40	Parallel discussion groups on the topics of the session	Chaired by the respective speakers

November 6, 2023 (3rd day)

9.00-12.00	Waste Water Treatment Plant of Thessaloniki Water Supply of Thessaloniki Water Supply Museum
12.00-14.00	Lunch-break

Celebration of the 10th anniversary of IPS-AOP

14.00-15.00	Round table (Members of the scientific committee present at the summer school.): past and future of the IPS-AOP -
15.00-15.30	10 years of IPS-AOP - awards for the best supervisor and a success story among the former Ph.D. students: short presentations from the winners
15.30-15.45	Best poster and short presentation award
15.45-16.00	Memory of Prof. Dionysios Dionysiou
16.00-16.15	Summer School conclusions



Poster communications from PhD students

PhD students are strongly encouraged to prepare a communication of their PhD thesis work on environmental application of AOP, as a poster. The evaluation committee will select up to 8 PhD students for a short oral presentation (5 min), to be held on the last day. The best poster and short presentation will be finally awarded.

Key dates

March 18st 2024 – Registration Opens

July 22th, 2024 – Deadline for Application

August 26th 2024 – Notification of Acceptance

4th to 6th November 2024 – Event

Organizing Committee

Prof. Dimitra Lambropoulou (Aristotele University of Thessaloniki, Greece)
Chairman

Prof. Luigi Rizzo (University of Salerno, Italy)
IPS-AOP Coordinator

Prof. Sixto Malato (Plataforma Solar de Almeria, Spain)
IPS-AOP Regional coordinator for Europe

Prof. Ricardo Torres Palma (Universidad de Antioquia, Colombia)
IPS-AOP Regional coordinator for Latin America





Registration fees

	Early bird (registration until 30/06/2024)	Regular fees (registration after 30/06/2024)
PhD students from IPS-AOP	Free	Free
PhD/MSc students	100 €	150 €
Regular (including postdoctoral researchers)	200 €	250 €
Speakers	Free	Free

Method of Payment: Via Bank transfer

Pay registration fee by bank transfer to the following account:

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For cancellations, the full registration fee remains due.