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Ajuntament d'Alcoi



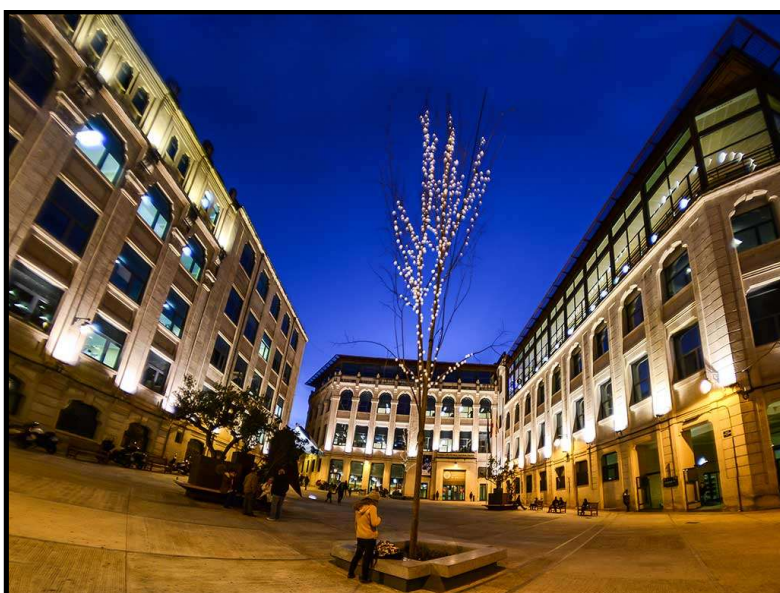
3rd European Summer School on *Environmental Applications of Advanced Oxidation Processes*

Venue: Escuela Politécnica Superior de Alcoy, Spain

June 3-7, 2019

1st announcement

The “[International PhD School on Advanced Oxidation Processes](#)” (**School**) organizes the 3rd European Summer School on “Environmental Applications of Advanced Oxidation Processes” in June 3-7, 2019, at the UPV, Alcoy Campus, Spain (www.epsa.upv.es). For further information about Alcoy visit www.alcoyturismo.com.



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 (October 18, 2018), with the aim to make the **School** international, Institutions from Latin America have been invited to join the School. Presently, the School includes 52 Scientific Committee members from 17 different Countries (for more information please visit School web-page in Researchgate:



<https://www.researchgate.net/project/International-PhD-School-on-Advanced-Oxidation-Processes>).

The Summer School is among the initiatives organized for **School** PhD candidates but other PhD students, MSc students, post-doctoral researchers and professionals are also welcome. The Summer School program includes: (I) an overview of the most important aspects related to AOPs presented by experts of international relevance, (II) a section specifically devoted to PhD students where they will have the chance to introduce themselves and their work, **through a short oral presentation (5 min) and/or a poster communication (A0 size recommended - 1189 × 841 mm)**, as well as to meet experts from the **School**.

Invited Lectures are typically of 35 min, including questions.

Preliminary Program

Monday, 3rd June

17.00 h Registration

19.00 h School inauguration

19.30. History of the AOPs, an overview. Santiago Esplugas, Universitat de Barcelona, Spain

Tuesday, 4th June,

Session 1: Fundamentals

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| 9.00-9.25 | Reactive species involved in AOPs | Marco Minella, Università di Torino, Italy |
| 9.25-9.35 | Questions to the speaker | |
| 9.35-10.00 | Basis and application of ozonation | Eva Rodriguez, Universidad de Extremadura |
| 10.00-10.10 | Questions to the speaker | |
| 10.10-10.35 | Iron chemistry and the Fenton reaction | Antonio Arques, Universitat Politècnica de València, Spain |
| 10.35-10.45 | Questions to the speaker | |
| 10.45-11.15 | Coffee break | |
| 11.30-11.55 | Semiconductor photocatalysis | Paola Calza, Università di Torino, Italy |
| 11.55-12.05 | Questions to the speaker | |
| 12.05-12.30 | Basis of electrochemical processes | Manuel Andrés Rodrigo, Universidad Castilla La Mancha, Spain |
| 12.30-12.40 | Questions to the speaker | |
| 12.40-13.05 | Photophysical mechanisms | María Luisa Marín, Universitat Politècnica de València, Spain |
| 13.05-13.15 | Questions to the speaker | |



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Session 2: Basis of the AOPs, modification and trends

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| 14.45-15.10 | Photolysis | Carme Sans, Universitat de Barcelona, Spain |
| 15.10-15.20 | Questions to the speaker | |
| 15.20-15.45 | Electrocatalysis | Angeles Sanromán, Universidade de Vigo, Spain |
| 15.45-15.55 | Questions to the speaker | |
| 15.55-16.20 | Novel trends in Photo-Fenton | Sixto Malato. Plataforma Solar de Almería, Spain |
| 16.20-16.30 | Questions to the speaker | |
| 16.30-17.00 | Coffee break | |
| 17.00-17.25 | Application of AOPs to solid matrixes (soils and adsorbents) | Marta Pazos Curras, Universidade de Vigo, Spain |
| 17.25-17.35 | Questions to the speaker | |
| 17.35-18.00 | Basis of disinfection | Inmaculada Polo, Plataforma Solar de Almería, Spain |
| 18.00-18.10 | Questions to the speaker | |
| 18.10-19.45 | Young researchers presentation | Chaired by Ana Amat, Universitat Politècnica de València, Spain |

Wednesday, 5th June

Session 3: Materials and catalysts

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| 9.00-9.25 | Homogeneous and heterogeneous catalysts | Maria Jose Muñoz, Universidad Rey Juan Carlos, Spain |
| 9.25-9.35 | Questions to the speaker | |
| 9.35-10.00 | New insights into photocatalysis | Suresh Pillai, I.T Sligo, Ireland |
| 10.00-10.10 | Questions to the speaker | |
| 10.10-10.35 | Synthesis and characterization of catalysts for environmental applications | Adrián Silva, Universidade do Porto, Portugal |
| 10.35-10.45 | Questions to the speaker | |
| 10.45-11.15 | Coffee break | |
| 11.30-11.55 | Immobilization techniques | Maria Angeles Bonet, Universitat Politècnica de València |
| 11.55-12.05 | Questions to the speaker | |
| 12.05-12.30 | Catalytic oxidation | Jose Antonio Casas, Universidad Autónoma de Madrid, Spain |
| 12.30-12.40 | Questions to the speaker | |
| 12.40-13.05 | Catalysts Characterization | Conchi Ania, CMHTI, CNRS Orleans |
| 13.05-13.15 | Questions to the speaker | |

Session 4: Reactors, modelling and light sources

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| 14.45-15.10 | Basic concepts of reactor design | Javier Marugan, Universidad Rey Juan Carlos, Spain |
| 15.10-15.20 | Questions to the speaker | |
| 15.20-15.45 | How to design a photochemical reactor | |



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| 15.45-15.55 | Questions to the speaker | José Antonio Sánchez Pérez, Universidad de Almería, Spain |
| 15.55-16.20 | Lamps and led reactors | Sara Domínguez, Apria Systems, Spain |
| 16.20-16.30 | Questions to the speaker | |
| 16.30-17.00 | Coffee break | |
| 17.00-17.25 | Publication of research results: author, reviewer and editor perspectives | Luigi Rizzo, Università di Salerno, Italy |
| 17.25-17.35 | Questions to the speaker | |
| 17.35-18.00 | Optimization: mathematical tools | Montserrat Pérez Moya, Universitat Autònoma de Barcelona, Spain |
| 18.00-18.10 | Questions to the speaker | |
| 18.10-18.35 | Adjusting kinetic parameters | José Luis Casas, Universidad de Almería, Spain |
| 18.35-18.45 | Questions to the speaker | |
| 18.45-19.10 | Sonochemistry | Ricardo Torres-Palma, Universidad de Antioquía, Colombia |
| 19.10-19.20 | Questions to the speaker | |

Thursday, 6th June

Session 5: Analysis and monitoring of the processes

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| 9.00-9.25 | Monitoring toxicity | Giusy Lofrano, Università di Salerno, Italy |
| 9.25-9.35 | Questions to the speaker | |
| 9.35-10.00 | Novel trends in chromatography | Ana Agüera, Universidad de Almería, Spain |
| 10.00-10.10 | Questions to the speaker | |
| 10.10-10.35 | Radicals determination in aqueous phase | Enzo Lautenti, Università di Torino, Italy |
| 10.35-10.45 | Questions to the speaker | |
| 10.45-11.15 | Coffee break | |
| 11.30-11.55 | EEM analysis of complex samples | Sara García-Ballesteros, Universitat Politècnica de València, Spain |
| 11.55-12.05 | Questions to the speaker | |
| 12.05-13.15 | Round table: the researcher career | Chaired by Alessandra Bianco-Prevot, Università di Torino (Italy) |

Session 6: Towards real implementation

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| 14.45-15.10 | Wastewater treatment: situation and overview | Javier Climent, FACSA, Spain |
| 15.10-15.20 | Questions to the speaker | |
| 15.20-15.45 | Real example: industrial wastewater | Vitor Vilar, Universidade do Porto, Portugal |
| 15.45-15.55 | Questions to the speaker | |
| 15.55-16.20 | Real example: tertiary treatment | Isabel Oller, Plataforma Solar de Almería, Spain |
| 16.20-16.30 | Questions to the speaker | |
| 16.30-17.00 | Coffee break | |
| 17.00-18.00 | Real example: water disinfection | César Pulgarín, Ecole Polytechnique Federal de Lausanne, Switzerland |
| 18.00-18.15 | Questions to the speaker | |
| 18.15-18.45 | General overview final remarks by students | |



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Oral and 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 and/or a flash (5 min) oral presentation. Further details will be given to the registered PhD participants.

Furthermore, the organizing committee gives the participants to the Summer School the chance to submit their work for possible publication in a **special issue of "RCS Advances"** (<http://www.rsc.org/journals-books-databases/about-journals/rsc-advances/>) an "open access" journal (article processing charge applies to papers accepted for publication after peer review process). Anyone who wishes to submit a work, should send prof. Antonio Arques an email (aarques@txp.upv.es) including authors' names and a tentative title before April 15th, 2019. The deadline to submit the work is July 30th, 2019.