Oral expositions (approximately): 15 min + 5 min for questions.

GENERAL SCIENTIFIC PROGRAM (*)

WEDNESDAY, 18TH JULY 2018

Schedule	ROOM 2	MAIN ROOM 1
8:30	**Documentation delivery**	
9:15 – 9:30	**Opening Session**	
9:30-10:15		**Plenary talk 1** **Role of carbon materials on advanced oxidation processes** M. Sánchez-Polo University of Granada Spain
10:15-11:00	**1. WASTE** **Desorption of Arsenic from Waste Adsorbent Media** Sedef Arikan Dokuz Eylül University Turkey **Comparison of food waste and food waste compost properties for the conversion to RDF** Ye-Eun Lee Korea Institute of Civil engineering and Building Technology Korea (South)	**2. WATER** **Synthesis of low cost pillared clays for the removal of pollutants by oxidation with hydrogen peroxide** Marzhan Kalmakhanova M.KH. Dulati Taraz State University Kazakhstan Collaborative Work Environments (CWEs) Using Telepresence and Mixed Reality with Emerging Open Standards and BIM for Improved Technical **Results with Safety, Higher Assembly Accuracy and Lower Costs in Engineering, Construction, Aviation and Defense** Jim Novack Talent Swarm by DYNATEC Spain

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11:00 – 11:30	**COFFEE-BREAK**	
11:30-12:00	**POSTER SESSION 1**	
12:00 – 13:30	**1. WASTE** **Heavy Metal Removal from Industrial Wastewater Using Green Glass Adsorbents Transformed from Waste LCD Panel Glass** Mei-Huey Chen Industrial Technology Research Institute Taiwan **Chemical and electrochemical pretreatment of waste waters containing inorganic toxic pollutants** Petr Prochazka Czech Technical University in Prague Czech Republic **Valuation of banana peels as biosorbents to remove low concentration Hg (II) from different aqueous solutions** Elaine Fabre University of Aveiro Portugal **Enhancement of landfill leachate biodegradability through coagulation followed by photoFenton oxidation using ZVI** Javier Tejera FUNDACIÓN GENERAL DE LA UCM Spain	**2. WATER** **Degradation of mixture of antibiotics in water by UV** Eun Hea Jho Hankuk University of Foreign Studies Korea (South) **Application of monopersulfate in AOPs using Fe(II) and Co(II) as metal activators for elderberry wastewater treatment** Carlos Amor Universidade de Trás-os-Montes e Alto Douro Portugal **CFD modeling of photocatalytic reactors based on the mechanistic multiphysics description of the process** Cintia Casado Rey Juan Carlos University Spain **Cleaning Waters Contaminated with Heavy Metals Using New Type Of Submersible Device** Roman Romanov Central Siberian Botanical Garden of the Siberian Branch of the Russian Academy of Sciences Russian Federation
13:30-15:00	**COCKTAIL**	

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THURSDAY, 19 TH JULY 2018

Schedule	ROOM 2	MAIN ROOM 1
9:15-10:00		**Plenary Talk 2** **The challenging removal of micropollutants** Macarena Munoz University Autónoma de Madrid Spain
10:00 – 11:00	**1. WASTE** **Waste Management from Rcycled Paper Production Under the Goals of Circular Economy** Mª Concepción Monte Fundación general de la UCM Spain **Removal of Hg in single- and multi-component systems by agricultural wastes** Elaine Fabre University of Aveiro Portugal **Respirometric study of Optical Brighteners in textile wastewater** Héctor Salas Universitat Politècnica de Catalunya Spain	**2. WATER** **Removal of natural radioactivity in drinking water through two different systems based on bed filters** Nicolas Martin-Sanchez Centro Tecnológico CARTIF Spain **Optimization of electrodeposited birnessite thin films for an efficient sorption of heavy metals from water** Rana Choumane Université Evry Val dâ Essonne France **Design and fabrication of continuous flow photo-reactor for degradation of organic pollutants** Abdel-Hameed M. El-Aassar Desert Research Center Egypt
11:00-11:30	**COFFEE-BREAK**	

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11:30-12:00	**POSTER SESSION 2**	
12:00 – 13:30	**1. ENERGY** **Optimizing energy efficiency of water supply systems** J. Ribau Sustainable Innovation Center Portugal **Optimisation of water and energy consumption in industrial water circuits: a case study** Muriel Iten Sustainable Innovation Centre- ISQ Portugal **Models for estimating daily photosynthetically active radiation** F. Ferrera-Cobos CIEMAT Energy Department Spain **Static analysis of the electricity generation systems from the solar energy as renewable energy** Mahmud Sami Donduren Selcuk University Turkey	**2. WATER** **Degradation of olive mill wastewater by Fenton's reagent process** Jose A. Peres Universidade de Trás-os-Montes e Alto Douro – UTAD Portugal **Evaluation of bisphenol A removal from water bodies using Eco-friendly technique** Alaa El Din Mahmoud Friedrich-Schiller University Jena Germany **Sewage Treatment Plant for Highly Seasonal Load at Pilgrim Center** Vishwanathan Arangath Vasco Environmental India Private Limited India **Nitrates and other pollutants removal from water resources using multifunctional polyurethane foams** Suset Barroso Solares University of Valladolid Spain
13:30-15:00	**COCKTAIL**	
19:30-21:30	**TOURISTIC VISIT-FREE WALKING TOUR**	

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FRIDAY, 20TH JULY 2018

Schedule	Room 2	Main Room 1
09:00 – 11h00	**1. WASTE** **Household waste potential for façades refurbishment. The case of Spanish schools solar control devices** Oriol Pons UPC-Barcelona Tech Spain **Diagenesis and long-term stability of Ca-rich ash waste disposal sites** K. Leben University of Tartu Estonia **Two Novel uses of Fluorescence Spectroscopy in Wastewater Management** M. B Borup Brigham Young University USA **Rehabilitation of educational architecture through waste-based intelligent façade layers** Oriol Pons UPC-Barcelona Tech Spain **Low-energy waste processing from food, plant and animal production by torrefaction** B. Grycova Institute of Environmental Technology	**2. WATER** **Enhanced oil removal from water-oil stable emulsions using electrospun PMMA-based blends fibrous mats** Suset Barroso Solares University of Valladolid Spain **Importance of Irrigation in Agricultural Sustainability** Z. Bayramoğlu Selcuk University Konya **Assessing water scarcity footprint of wine production in the Alentejo region, Portugal: preliminary results** P. Presumido Instituto Politécnico de Bragança Portugal **Phase Equilibrium Condition Measurements in Carbon Dioxide Hydrate Forming System Coexisting with Sodium Chloride Aqueous Solutions** Rihito Nakane University of the Ryukyus Japan **The Effect of Mixing Time in Scaling Quantity of Injection Water** Saeed Abbasi Research Institute of Petroleum Industry (RIPI) Iran

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	Czech Republic	**Comparing Canopy Temperature of Soybean Irrigated by Surface and Subsurface Drip Irrigation Method under Mediterranean Conditions** Begum POLAT Akdeniz University Turkey
11:00-11:30	**COFFEE-BREAK**	
11:30-12:00	**POSTERS SESSION 3**	
12:00 – 13:30	**1. ENERGY** **ECOdeclare methodological framework: Eco-Efficiency, and Eco-Effectiveness integrated on Environmental Management Systems** Fernando Cunha IPS Portugal **New Methodology in Fracture Characterization by Petrophysics and Drilling Data** Mohammad Parvazdavani Research Institute of Petroleum Industry (RIPI) Iran	**2. WATER** **Biopolymer Hydrogels and Their Uses in Water Purification** Sinem Palantöken SALSA (School of Analytical Sciences Adlershof) Germany **New Methodology in Determining Well Water Gas Ratio from Water Production Salinity in Gas Reservoirs with Aquifer** Mohsen Safari Research Institute of Petroleum Industry (RIPI) Iran **Prediction and Modeling of Scale Precipitation in Water Injection Process to Hydrocarbon Reservoirs** Saeed Abbasi Research Institute of Petroleum Industry (RIPI) Iran
13:30-15h30	**CLASSICAL MUSIC CHAMBERT CONCERT and CLOSING COCKTAIL**	

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POSTER SESSIONS

TOPIC 1: WASTE

TOPIC 2: WATER

TOPIC 3: ENERGY

POSTER SESSION 1 Wednesday, 18th July 2018 Title	Name	ID	Topic
Industrial catalytic applications of valorized zinc oxide from non-ferrous metal waste	Enrique Añó	414	1
Thermal valorization of sludge wastes from Paper industry in a conical spouted bed combustor	Maria J San Jose	476	1
Characterization of Carbonized Porous Media manufactured by Sewage Sludge in Pyrolysis conditions	Younghan Yoon	521	1
Aerobic and anaerobic decomposition of wood sludge from pulp production with enzyme additions	Jiri Rusin	549	1
Analysis of the feasibility of the use as fertilizers, of leachates from a mechanical biological treatment plant for municipal solid waste	Jonathan Cardoso	387	1
Anaerobic digestion of selected waste biomass from the pharmaceutical industry	Katerina Chamradova	551	1
Dehydrated biomass recovered from processing of "biju" maize flour and its potential as new ingredient	Manoel Soares Júnior	392	1
Physicochemical quality and sensory acceptance of biscuits with partial replacement of wheat flour by dehydrated biomass recovered from processing of "biju" maize flour	Manoel Soares Júnior	393	1

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Oral expositions (approximately): 15 min + 5 min for questions.

Dehydrated biomass recovered from processing of "biju" maize flour in cereal bar	Márcio Caliari	394	1
Shelf life of cereal bar formulated with dehydrated biomass recovered from processing of "biju" maize flour, rice flakes and oat flakes	Márcio Caliari	395	1
Desorption of lead from a heavy metal-polluted calcareous soil	Antoine Karam	399	1
Nitrification process in treatment of leached sludge by a sequential batch biological reactor SBBR	Álvaro Chávez Porras	610	1
Vermicomposting in processes of decontamination of recalcitrant sludge	Álvaro Chávez Porras	611	1
Evaluation of solid residues from waste incineration	Veronika Blahuskova	620	1
Activated carbons prepared from a compost obtained in mechanical biological treatment plants for municipal solid waste processing	Helder Gomes	624	1
New concept of bioconversion of tanned leather fibres with applications in the construction industry	Gabriel Zainescu	712	1
High yield hydrogel systems obtained from leather wastes	Gabriel Zainescu	713	1
Exchangeable acidity in a residual peat soil amended with calcitic limestone	A. Karam	766	1
Characterization of Carbonized Porous Media manufactured by Sewage Sludge in Pyrolysis conditions	Yeong-Seok Yoo	521	1
Biological degradation of the textile dye Remazol Blue using the pedicels of dates as a support and organic substrate for microbial consortia	Rezzaz-Yazid Hynda	249	1
Removal of metylene blue from aqueous solution by adsorption onto olive cake	Rezzaz-Yazid Hynda	556	1
Treatment and Characterization of new local clay materials from El-Menia (Ghardaïa, Algeria) for their potential uses in wastewater treatment. A case study of industrial liquid wastes	B. Makhlouf	233	1

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Oral expositions (approximately): 15 min + 5 min for questions.

Valorisation and Recycling Paper Mill Waste: Search new Ceramic Formulation to Improve Rheological and Physical-Mechanical Properties.	Bachir Chemani	335	1
Heavy Metal Removal from Industrial Wastewater Using Green Glass Adsorbents Transformed from Waste LCD Panel Glass	Mei-Huey Chen	555	1
Treatment of textile baths in solar pond reactors: Influence of pH and process intensification on their environmental performance	Luis Miguel Salazar	762	1
POSTER SESSION 2 **Thursday, 19 th July 2018** **Title**	**Name**	**ID**	**Topic**
Zinc Oxide (ZnO) for Water purification	J. A. Navío	232	2
Nanofiber membrane functionalized with molecularly imprinted polymers for humic acid removal: Thermodynamic study	Muhammad Ali Zulfikar	315	2
GrayWaters – A low-cost gray water reuse system	Fernando Moita	356	2
Removal of the ammonia nitrogen by ion-exchanged natural zeolite	Gab-Jin Hwang	371	2
Photodegradation of parabens by UV-driven Avanced Oxidation Processes	M. Victoria López Ramón	391	2
Copper ferrite nanospheres synthesized by a solvothermal method as a highly active Fenton catalyst to remove phenolic compounds	M. Victoria López Ramón	412	2
Removal of Tartrazine by different Activated Homogeneous Catalytic Processes. Kinetic aspects	Teresa González Montero	416	2
Tartrazine Removal by Fenton Advanced Oxidation. Multivariable Optimization by RSM	Teresa	417	2

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Oral expositions (approximately): 15 min + 5 min for questions.

	González Montero		
Elderberry wastewater treatment by photo-Fenton process using UV-C Hg lamp and UV-A LEDs radiation	Jose A. Peres	478	2
Tertiary Treatment based on Free Floating Macrophytes (FFM) to improve nutrient removal in Urban Waste Water Treatment Plants	M.I. Fernández	481	2
Catalytic removal of salicylic acid from water using titanium oxide doped with Fe and Ag	L.Santamaría	486	2
Syntesis of WO3 nanostructures anodized in dynamic conditions and doped with nitrogen for use in environmental applications	María José Muñoz	526	2
Performance, cytotoxicity and transformation products of sulfonamide antibiotics oxidation with ferrate (VI)	M. Sánchez-Polo	542	2
Photodegradation kinetics of hydrochlorotiazide in aqueous solution based on quantification of ultraviolet radiation	M. Sánchez-Polo	543	2
Removal of herbicide in water by photodegradation process using tio2 nanobelt	A. Chenchana	572	2
Catalytic wet peroxide oxidation of 4-nitrophenol with natural and pillared clays from Kazakhstan: Lumped kinetic model of TOC	JL. Diaz de Tuesta	588	2
Oxidation and decoloration of wastewater of a textile factory by electrochemical process	Teresa Zayas	617	2
Photocatalytic properties of coupled system TiO2-WO3 versus its parent oxides	J.A. Navio	695	2
Separation and determination of mixture of cr (iii) and fe (iii) from aqueous solution after solid-phase extraction using chelating resin chelex-100	Amara Rekkab	698	2

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Oral expositions (approximately): 15 min + 5 min for questions.

New sustainable and automated system for the reuse of water and salt in the textile industry: ECUVal project	C. Gutiérrez-Bouzán	723	2
ANP multicriteria analysis for the selection of alternatives in water supply in a rural area of the Colombian Amazon	J. Cueva	732	2
Adsorptive removal of the endocrine disruptor Bisphenol A from wastewater	Juan García Rodriguez	719	2
Influence of the ruthenium percentage supported on carbon nanospheres for the degradation of a disruptor endocrine by catalytic Oxidation	Juan García Rodriguez	722	2
Treatment of agro-industrial water by advanced oxidation processes	Elisenda Pulido	608	2
Enhancement of photo-Fenton processes with oxalate complexes: How economic, scalable, and sustainable is intensification?	Luis Miguel Salazar	761	2
Synthesis and characterization of a keggin type tungsten-vanadium material. Application in wastewater treatment	R. Bagtache	645	2
Water Management strategy in the Gangetic Delta of Coastal Bangladesh under Changing Climate	Monowar Hossain	705	2
Comparison of Measured Soil Water Content with Three Different Soil Moisture Sensor	Begum POLAT	595	2

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POSTER SESSION 3 Friday, 20th July 2018 Title	Name	ID	Topic
A new method for evaluating the relationship between removal efficiency and energy consumption (including industrial discharges) in urban Wastewater Treatment Plants in the Southwest of Spain	M.I. Fernández Fernández	482	3
WATTer Skills. Skills for Water Efficiency and Water-Energy Nexus in Building Construction and Retrofit	Javier González	489	3
Economic Analysis of Biofuel Production Process	Wangyun Won	730	3

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