

## CONFERENCE SCHEDULE

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### Sunday, 25<sup>th</sup> June 2017

- 15:00 - 19:00    **Registration (HOTEL DAP)**  
19:00 - 20:30    **WELCOME COCTAIL (HOTEL DAP)**

### Monday, 26<sup>th</sup> June 2017

- 8:00 - 8:30    **Registration (HOTEL DAP)**

#### CONFERENCE HALL A

- 8:30 - 8:40    WELCOME AND OPENING OF EAAOP5**  
*Josef KRÝSA, Chair of EAAOP5, UCT Prague, Czech Republic*  
*Karel MELZOCH, Rector of UCT Prague, Czech Republic*
- Chair:        Ladislav KAVAN**
- 8:40 - 9:20    **PL1: Ozonation for Enhanced Wastewater Treatment: Kinetics and Mechanisms for Micropollutant Abatement, Oxidation By-Product Formation and Toxicological Assessment**  
*Urs von GUNTEN, Swiss Federal Institute for Aquatic Science and Technology, Duebendorf, Switzerland*
- 9:30-17:25    PARALLEL SESSIONS**
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#### CONFERENCE HALL A

- 9:30 - 10:35    SESSION 2A: SEMICONDUCTOR PHOTOCATALYSIS**  
*Session Chair: Ladislav Kavan*
- 9:30 - 9:55    K1: The Role of EPR Spin Trapping Technique in the Characterization of Photogenerated Non-Persistent Radical Species: From Fundamentals to Prospects and Problems  
*Vlasta BREZOVA, Slovak University of Technology in Bratislava, Bratislava, Slovakia*
- 9:55 - 10:15    O1: Improved Electron-Hole Separation/Migration in TiO<sub>2</sub>/Reduced Graphene Oxide Composites for Efficient Photocatalytic Decomposition of Bisphenol A  
*Gregor ŽERJAV, National Institute of Chemistry, Ljubljana, Slovenia*
- 10:15 - 10:35    O2: TiO<sub>2</sub>-Graphene Photocatalytic Degradation of Perfluorooctanoic Acid (PFOA)  
*Ane URTIAGA, University of Cantabria, Santander, Spain.*
- 10:35 - 11:05    COFFEE BREAK**
- 11:05 - 12:35    SESSION 2B: SEMICONDUCTOR PHOTOCATALYSIS**  
*Session Chair: Teruhisa OHNO*
- 11:05 - 11:30    K2: Photoelectrochemical Water Splitting at Titanium Dioxide: 50-Years-Old Evergreen  
*Ladislav KAVAN, J. Heyrovsky Institute of Physical Chemistry, Prague, Czech Republic*
- 11:30 - 11:55    K3: Low Temperature Synthesis Routes to Mixed Metal Photocatalysts by Use of Ionic Liquids  
*Michael WARK, Carl von Ossietzky University Oldenburg, Oldenburg, Germany*
- 11:55 - 12:15    O3: Carbon Nitride Based Materials as Highly Efficient Photocatalysts for Water Treatment Under VIS-LED Irradiation  
*Joaquim L. FARIA, Universidade do Porto, Porto, Portugal*
- 12:15 - 12:35    O4: Carbon Nitride Nanosheets for the Selective Photocatalytic Partial Oxidation of 5-Hydroxymethyl-2-Furfural to 2,5-Furandicarboxyaldehyde in Water Suspension  
*Elisa Isabel GARCÍA-LÓPEZ, University of Palermo, Palermo, Italy*
- 12:35 - 14:00    LUNCH**
- 14:00 - 15:25    SESSION 2C: SEMICONDUCTOR PHOTOCATALYSIS**  
*Session Chair: Michael WARK*

- 14:00 - 14:25 K4: Development of p-Type Semiconductor Electrodes for Photoelectrochemical CO<sub>2</sub> Reduction under Visible Light  
*Teruhisa OHNO, Kyushu Institute of Technology, Fukuoka, Japan*
- 14:25 - 14:45 O5: The Synthesis of Shape-Tailored Zinc Oxide Nanostructures and Black-Box Modelling Approach of its Synthesis Procedure  
*Zsolt PAP, University of Szeged, Szeged, Hungary*
- 14:45 - 15:05 O6: High Impulse Magnetron Sputtering of Black Titania Thin Films for Photoelectrochemical Water Splitting  
*Stepan KMENT, Palacky University, Olomouc, Czech Republic*
- 15:05 - 15:25 O7: Enhanced Photocatalytic Efficiency of Self-Organized TiO<sub>2</sub> Nanotube Layers due to Secondary Materials  
*Hanna SOPHA, University of Pardubice, Pardubice, Czech Republic*
- 15:25 - 15:55 COFFEE BREAK**
- 15:55 - 17:25 SESSION 12&13: PILOT SCALE AOPs, AOPs FOR WATER TREATMENT**  
***Session Chair: Gilles MAILHOT***
- 15:55 - 16:20 K5: AOPs for Water Treatment: The Intriguing Role of the Matrix  
*Dionissios MANTZAVINOS, University of Patras, Patras, Greece*
- 16:20 - 16:45 K6: Different Applications of Solar Photo-Fenton Process: Economical Approach and Comparison with Other AOPs  
*Sixto MALATO, Plataforma Solar de Almería-CIEMAT, Almería, Spain*
- 16:45 - 17:05 O8: New Configurations for Solar Collectors Applied to Decontamination of Landfill Leachates by a Photo-Fenton Process  
*Vitor VILAR, University of Porto, Porto, Portugal*
- 17:05 - 17:25 O9: Application of Electrolytic Processes with Diamond Anodes for the Oxidation of Imidazolium Ionic Liquids in Aqueous Phase  
*Salvador COTILLAS, University of Castilla-La Mancha, Albacete, Spain*

## CONFERENCE HALL B

- 9:50 - 10:55 SESSION 3A: FENTON AND FENTON LIKE PROCESSES**  
***Session Chair: Sixto MALATO***
- 9:50 - 10:15 K7: Iron as an Abundant, Cheap, Non-Toxic and Versatile Catalyst for Solar-Assisted Water Disinfection at Near-Neutral pH  
*Cesar PULGARIN, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland*
- 10:15 - 10:35 O10: Effect of the Control Parameters on the Water-Color in a Photo-Fenton System Applied to Oxidate Paracetamol  
*Natalia VILLOTA, Escuela Universitaria de Ingeniería de Vitoria-Gasteiz, Alava, Spain*
- 10:35 - 10:55 O11: Wild Bacteria Inactivation in WWTP Secondary Effluents By Solar Photo-Fenton at Neutral pH in Raceway Pond Reactors  
*Belén ESTEBAN GARCÍA, University of Almería, Almería, Spain*
- 10:55 - 11:15 COFFEE BREAK**
- 11:15 - 12:55 SESSION 3B: FENTON AND FENTON LIKE PROCESSES**  
***Session Chair: Cesar PULGARIN***
- 11:15 - 11:35 O12: Accelerated Fenton-Like Degradation of Contaminants in Water – an Fe-Pd-Multicatalysis Approach  
*Anett GEORGI, Helmholtz Centre for Environmental Research – UFZ, Leipzig, Germany*
- 11:35 - 11:55 O13: Humic like Substances as Complexing Agents to Drive Near Neutral Photo-Fenton  
*Antonio ARQUES, Universitat Politècnica de València, València, Spain*
- 11:55 - 12:15 O14: Fenton-Based Technologies for Environmental Restoration of Emerging Pollutants  
*Marta PAZOS, University of Vigo, Vigo, Spain*

- 12:15 - 12:35 O15: Double Flow-Through Jet Cell for the Electro-Fenton Process  
*Christina SÁEZ, University of Castilla La Mancha, Ciudad Real, Spain*
- 12:35 - 12:55 O16: Pharmaceuticals Abatement by CWPO with Natural Magnetite in Real Aqueous Matrices  
*Macarena MUNOZ, Universidad Autónoma de Madrid, Madrid, Spain*
- 12:55 - 14:20 LUNCH**
- 14:30 - 15:35 SESSION 7: WET AIR AND SUPERCRITICAL OXIDATION PROCESSES**  
**Session Chair: Javier MARUGÁN**
- 14:30 - 14:55 K8: Catalytic High Temperature Processes (Wet-Air Oxidation) for Water Treatment  
*Albin PINTAR, National Institute of Chemistry, Ljubljana, Slovenia*
- 14:55 - 15:15 O17: Synthesis of Iron Nanoparticles from Iron and Steel Wastes for the Catalytic Wet Oxidation of Highly Refractory Wastewaters  
*Paula OULEGO, University of Oviedo., Asturias, Spain*
- 15:15 - 15:35 O18: Rate of Hydrogen Oxidation in Supercritical Water  
*Igor SVISHCHEV, Trent University, Peterborough, Canada*
- 15:35 - 15:55 COFFEE BREAK**
- 15:55 - 17:15 SESSION 5: OZONIZATION**  
**Session Chair: Urs von GUNTEN**
- 15:55 - 16:15 O19: Combined (Electrochemical) ClO<sub>2</sub>/Ozone – a Promising Method for Water Disinfection  
*Henry BERGMANN, Anhalt University, Bernburg, Germany*
- 16:15 - 16:35 O20: Ozonation-Assisted Technologies for Treatment of Produced Water from Oil and Gas Industry  
*Sandra CONTRERAS, Universitat Rovira I Virgili, Tarragona, Spain*
- 16:35 - 16:55 O21: Tackling Toxicity in Ozonated Textile Wastewater for Enhanced Biological Treatment  
*Huseyin SELCUK, Istanbul University, Istanbul, Turkey*
- 16:55 - 17:15 O22: Degradation of Orange II by Heterogeneous Catalytic Ozonation Using a Bimetallic Fe-Co/SBA-15 Catalyst in Water  
*Chun CAI, China University of Geosciences, Wuhan, China*

#### CONFERENCE HALL A

- 17:30 - 18:30 STUDENT PAPER COMMUNICATIONS I: Semiconductor photocatalysis**  
**Chair: Joaquim L. FARIA, Petr DZIK**
- 18:30 - 20:00 POSTER SESSION I: Semiconductor photocatalysis (with refreshment)**

**Tuesday, 27<sup>th</sup> June 2017**

**CONFERENCE HALL A**

**Chair:** *Sylvie LACOMBE*

8:40 - 9:20 **PL2: Multielectron Reduction of Oxygen in Photocatalysis: Kinetic Studies on Photocatalytic Oxidation of Organic Compounds by Bismuth Tungstate and the other Metal-Oxide Particles**

*Bunsho OHTANI, Hokkaido University, Sapporo, Japan*

**9:30-17:25 PARALLEL SESSIONS**

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**CONFERENCE HALL A**

**9:30 - 10:35 SESSION 2D: SEMICONDUCTOR PHOTOCATALYSIS**

**Session Chair:** *Sylvie LACOMBE*

9:30 - 9:55 K9: Photocatalyst Activity Indicator Inks: An Overview

*Andrew MILLS, Queens University Belfast, Belfast, United Kingdom*

9:55 - 10:15 O23: Development of a European Standard: Test Method for Water Purification Performance of Photocatalytic Materials by Measurement of Phenol Degradation

*Theodoros TRIANTIS, European Committee for Standardization, Attiki, Greece*

10:15 - 10:35 O24: An EPR Spin Trapping Study of Radical Intermediates Generated upon Photoexcitation of Glycerol in Titania Suspensions

*Zuzana BARBIERIKOVÁ, Slovak University of Technology in Bratislava, Bratislava, Slovakia*

**10:35 - 11:05 COFFEE BREAK**

**11:05 - 12:35 SESSION 2E: SEMICONDUCTOR PHOTOCATALYSIS**

**Session Chair:** *Bunsho OHTANI*

11:05 - 11:30 K10: Photocatalytic Conversion of Cellulose in a Propeller Fluidised Photo Reactor-Hydrogen Evolution Coupled with Fermentable Sugar Formation

*Peter ROBERTSON, Queens University Belfast, Belfast, United Kingdom*

11:30 - 11:55 K11: Photocatalysis by Sandwiched Composite Particles Comprising of Ag Core-SiO<sub>2</sub>-C<sub>3</sub>N<sub>4</sub> Shell

*Yaron PAZ, Department of Chemical Engineering, Technion, Haifa, Israel*

11:55 - 12:15 O25: Photocatalytic Oxidation of Organic Compounds over Uranyl Modified Oxides under Visible Light

*Denis KOZLOV, Boreskov Institute of Catalysis, Novosibirsk, Russia*

12:15 - 12:35 O26: Competitive Reactions of Alcohols as a Powerful Tool for Elucidation of Mechanisms of Hydrogen Photocatalytic Production

*Jesus HIDALGO CARRILLO, Universidad de Córdoba, Córdoba, Spain*

**12:35 - 14:00 LUNCH**

**14:00 - 15:50 SESSION 2F: SEMICONDUCTOR PHOTOCATALYSIS**

**Session Chair:** *Peter ROBERTSON*

14:00 - 14:25 K12: A Brief Survey of the Practability of Using Photocatalysis to Purify Ambient Air (Indoors or Outdoors) or Air Effluents

*Pierre PICHAT, Ecole Centrale de Lyon, Ecully, France*

14:25 - 14:50 K13: Photocatalytic Transformation of C<sub>2</sub>Cl<sub>4</sub> in Gas Phase under UV-Irradiated Titanium Dioxide

*Claudio MINERO, University of Torino, Torino, Italy*

14:50 - 15:10 O17: Determination of the Clean Air Delivery Rate (CADR) of Photocatalytic Oxidation Purifiers for Indoor Air Pollutants Using a Closed-Loop Reactor

*Valerie HEQUET, GEPEA, Nantes, France*

15:10 - 15:30 O28: Problem of CO Formation During the Photocatalytic Oxidation of VOCs and the Approach to its Solving

*Dmitry SELISHCHEV, Boreskov Institute of Catalysis, Novosibirsk, Russia*

15:30 - 15:50 O29: The Influence of Curing Methods on the Physico-chemical Properties of Printed Mesoporous Titania Patterns Reinforced by Methylsilica Binder  
*Petr DZIK, Brno University of Technology, Brno, Czech Republic*

**15:50 - 16:20 COFFEE BREAK**

**16:20 - 17:25 SESSION 14: AOPs FOR AIR TREATMENT**

*Session Chair: Claudio MINERO*

16:20 - 16:45 K14: Photocatalytic Air-Purifiers and Materials for Indoor Air: Comparison of Efficiency under European Standard and Real Conditions  
*Sylvie LACOMBE, IPREM UMR CNRS, Pau, France*

16:45 - 17:05 O30: Oxidation of NO<sub>x</sub> by Photocatalysis Using TiO<sub>2</sub>, Au-TiO<sub>2</sub>, Pt-TiO<sub>2</sub>, Pd-TiO<sub>2</sub> and Ni-TiO<sub>2</sub>  
*Elisenda PULIDO MELIÁN, Universidad de Las Palmas de Gran Canaria, Las Palmas, Spain.*

17:05 - 17:25 O31: Kinetic Approach of the Photocatalytic Oxidation of Dichloromethane in a Coated Mesh Reactor  
*Claudio PASSALLA, Universidad Nacional del Litoral, Santa Fe, Argentina*

### CONFERENCE HALL B

**9:50 - 10:50 SESSION 13A: AOPs FOR WATER TREATMENT**

*Session Chair: Dionissios MANTZAVINOS*

9:50 - 10:10 O32: Solar Photo-Fenton Process in Continuous Raceway Pond Reactors for Micropollutant Removal in WWTP Secondary Effluents, Comparison of Operating Conditions  
*José Antonio SÁNCHEZ PÉREZ, University of Almería, Almería, Spain*

10:10 - 10:30 O33: Photocatalytic Degradation of Emerging Concern Contaminants in Water by Heterogeneous Sodium Decatungstate  
*Alessandra MOLINARI, University of Ferrara, Ferrara, Italy*

10:30 - 10:50 O34: Application of Titania-Based Continuous-Microflow Photocatalysis in Water Detoxification  
*Juan Carlos COLMENARES QUINTERO, Institute of Physical Chemistry (PAS), Warsaw, Poland*

**10:50 - 11:10 COFFEE BREAK**

**11:10 - 12:50 SESSION 13B: AOPs FOR WATER TREATMENT**

*Session Chair: Luigi RIZZO*

11:10 - 11:30 O35: Gas-Phase Pulsed Corona Discharge in Treatment of Aqueous Solutions of High Conductivity: Quantification of Ozone and Hydroxyl Radical Impacts  
*Sergei PREIS, South China University of Technology, Guangzhou, China*

11:30 - 11:50 O36: Insights into Degradation of Bisphenol A by Activating Peroxymonosulfate with Zn<sub>0.4</sub>Mn<sub>0.6</sub>Fe<sub>2</sub>O<sub>4</sub> Fabricated from Spent  
*Heng LIN, Wuhan University, Wuhan, China*

11:50 - 12:10 O37: Ferrates(VI) – Strong „Green“ Oxidant for Environment  
*Jan HIVES, Slovak University of Technology in Bratislava, Bratislava, Slovakia*

12:10 - 12:30 O38: Decomposition of Fluoxetine and Fluvoxamine by Ferrate(VI)  
*Przemysław DRZEWICZ, Polish Geological Institute-Polish Research Institute, Warszawa, Poland*

12:30 - 12:50 O39: Removal of the X-Ray Contrast Chemical Iopamidol from Tertiary Treated Wastewater: Investigation of Persulfate-Mediated Photochemical Treatment  
*Idil ARSLAN-ALATON, Istanbul Technical University, Istanbul, Turkey*

**12:50 - 14:20 LUNCH**

**14:30 - 15:55 SESSION 10A: DISINFECTION**

*Session Chair: Dionysios DIONYSIOU*

14:30 - 14:55 K15: Photocatalytic and Electrochemically Assisted Photocatalytic Disinfection of Water  
*Tony BYRNE, Ulster University, Newtownabbey, United Kingdom*

- 14:55 - 15:55 O40: Differentiated Strategies of Hospital Wastewater Treatment by Advanced Oxidation Processes in Switzerland vs. Ivory Coast and Colombia  
*Stefanos GIANNAKIS, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland*
- 15:15 - 15:35 O41: Evaluation of Solar Water Disinfection Model for E. Coli Inactivation at Real Field Conditions  
*Maria Inmaculada POLO-LÓPEZ, Plataforma Solar de Almería – CIEMAT, Tabernas, Spain*
- 15:35 - 15:55 O42: Novel Procedure for the Numerical Simulation of Solar Water Disinfection  
*Javier MARUGÁN, Universidad Rey Juan Carlos, Madrid, Spain*
- 15:55 - 16:15 COFFEE BREAK**
- 16:15 - 17:15 SESSION 10B: DISINFECTION**  
*Session Chair: Henry BERGMANN*
- 16:15 - 16:35 O43: Ozonation of Giardia Duodenalis Cysts: Evaluation Using an Animal Model and a Molecular Approach  
*José Roberto GUIMARÃES, University of Campinas, Campinas, Brazil*
- 16:35 - 16:55 O44: Wastewater Disinfection by Membrane Photoreactors Coupling Microfiltration with UV-C Disinfection  
*Jorge RODRIGUEZ-CHUECA, Rey Juan Carlos University, Móstoles, Spain*
- 16:55 - 17:15 O45: N-Doped TiO<sub>2</sub> Photocatalysts for Bacterial Inactivation in Water  
*Danae VENIERI, Technical University of Crete, Chania, Greece*

#### CONFERENCE HALL A

- 17.30 - 18.30 STUDENT PAPER COMMUNICATIONS II: UV based processes, Semiconductor photocatalysis, Fenton and Fenton-like processes**  
*Chair: Pierre PICHAT, Martin ZLÁMAL*
- 18.30 - 20.00 POSTER SESSION II: UV based processes, Semiconductor photocatalysis, Fenton and Fenton-like processes (with refreshment)**

**Wednesday, 28<sup>th</sup> June 2017**

**CONFERENCE HALL A**

**Chair:** *Tony BYRNE*

8:40 - 9:20 **PL3: Developments and Applications of Sulfate Radical-Based Advanced Oxidation Processes in Removal of Organic Contaminants**

*Dionysios DIONYSIOU, University of Cincinnati, Cincinnati, USA*

**9:30-13:05 PARALLEL SESSIONS**

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**CONFERENCE HALL A**

**9:30 - 10:35 SESSION 1A: UV BASED PROCESSES**

**Session Chair:** *Tony BYRNE*

9:30 - 9:55 K16: Fe(III) Complexes in Advanced Oxidation Processes: Advantages and Drawbacks

*Gilles MAILHOT, Université Clermont Auvergne, Clermont-Ferrand, France*

9:55 - 10:15 O46: Advanced Treatment of Urban Wastewater by Homogeneous Photocatalysis: A Comparison between UV/PAA and UV/H<sub>2</sub>O<sub>2</sub>

*Luigi RIZZO, University of Salerno, Fisciano, Italy*

10:15 - 10:35 O47: Efficient Photochemical Decomposition Of Trifluoroacetic Acid And Its Analogues With Electrolyzed Sulfuric Acid

*Hisao HORI, Kanagawa University, Hiratsuka, Japan*

**10:35 - 11:05 COFFEE BREAK**

**11:05 - 12:55 SESSION 1B: UV BASED PROCESSES**

**Session Chair:** *Yaron PAZ*

11:05 - 11:25 O48: Photolytic Degradation of Trimethoprim Enhanced by Organic Aerogels

*Juri BOLOBAJEV, Tallinn University of Technology, Tallinn, Estonia*

11:25 - 11:45 O49: NO<sub>x</sub> Removal by Vacuum Ultra-Violet Light Irradiation in Flow Reactors

*Marco MINELLA, University of Torino, Torino, Italy*

11:45 - 12:05 O50: Understanding the UV/Cl<sub>2</sub> Process for Drinking Water Treatment

*Peter JARVIS, Cranfield University, Cranfield, United Kingdom*

12:05 - 12:25 O51: Comparative Treatment of Penicillin, Cephalosporin and Fluoroquinolone Antibiotics in Waters by UV254 and UV254/Persulfate Processes

*Ricardo TORRES-PALMA, Universidad de Antioquia, Medellin, Colombia*

12:25 - 12:45 O52: Sulfamethazine Degradation by UV/H<sub>2</sub>O<sub>2</sub> Process: Comparison of Photon Fluence Determination, Degradation Kinetics and Energy Consumption among Various Lightsources

*Mengkai LI, Research Center for Eco-Environmental Sciences (CAS), Beijing, China*

12:45 - 13:05 O53: Practical Applications and Market Developments 25 Years after the Discovery of TiO<sub>2</sub> Photocatalysis

*Jan PROCHÁZKA, Advanced Materials-JTJ, Czech Republic*

**13:05 - 14:20 LUNCH**

**CONFERENCE HALL B**

**9:50 - 10:50 SESSION 6A: ELECTROCHEMICAL PROCESSES**

**Session Chair:** *Albin PINTAR*

9:50 - 10:10 O54: Electrocoagulation Scaling-Up for Removal of Toxic Metals, Namely Cr<sup>6+</sup> and Ni<sup>2+</sup>

*Pavel KRYSTYNÍK, Institute of Chemical Process Fundamentals of the CAS, Prague, Czech Republic*

10:10 - 10:30 O55: Roles of Homogeneous and Heterogeneous •OH Radicals in an Advanced Electrochemical Treatment – Towards Reactor Design Optimization

*Emmanuel MOUSSET, CNRS-Université de Lorraine, Nancy, France*

10:30 - 10:50 O56: Application of Electrochemical Oxidation Process to Waters Containing Organochlorine Pesticides from Lindane Production Wastes

*Carmen María DOMÍNGUEZ TORRE, Universidad Complutense de Madrid, Madrid, Spain*

**10:50 - 11:10 COFFEE BREAK**

**11:10 - 12:10 SESSION 6B: ELECTROCHEMICAL PROCESSES**

***Session Chair: Denis KOZLOV***

11:10 - 11:30 O57: Elimination of Emerging Pollutants by Means of Hydroxyl Radicals – Experience from the Project Risk-Ident

*Chunyan LI, Condias GmbH, Itzehoe, Germany*

11:30 - 11:50 O58: Investigation of Electrochemical Process for Removal of Emerging Organic Pollutants in Wastewater Treatment Plant Effluents by a Boron-Doped Diamond Electrode

*Giuseppe MASCOLO, Water Research Institute, Bari, Italy*

11:50 - 12:10 O59: Degradation of Organic Compounds in Wastewater Matrix by Electrochemically Generated Reactive Chlorine Species: Kinetics and Selectivity

*Kangwoo CHO, Pohang University of Science and Technology, Pohang, Korea*

**12:10 - 14:20 LUNCH**

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#### CONFERENCE HALL A

**14:20 - 15:30 STUDENT PAPER COMMUNICATIONS III: Ozonization, Electrochemical processes, Wet air oxidation, Disinfection, Pilot scale AOPs, AOPs for air treatment**

***Chair: Danae VENIERI, José Antonio SÁNCHEZ PÉREZ***

**15:30 - 16:00 COFFEE BREAK**

**15:30 - 17:00 POSTER SESSION III: Ozonization, Electrochemical processes, Wet air oxidation, Zero-valent iron and other reducing agents, Disinfection, Pilot scale AOPs, AOPs for air treatment, AOPs for energy production**

**19:00 - 23:00 CONFERENCE GALADINNER: VILA LANNA**



**Thursday, 29<sup>th</sup> June 2017**

**CONFERENCE HALL A**

**Chair:** *Andrew MILLS*

**8:40 - 9:20 PL4: Semiconductor Electrochemical Wastewater Treatment: From Design Concepts to Full-Scale Manufacturing in 5 Years**

*Michael HOFFMANN, California Institute of Technology, Pasadena, USA*

**9.30 - 10:30 STUDENT PAPER COMMUNICATIONS IV: AOPs for water treatment, Coupling of AOPs with other processes**

**Chair:** *Andrew MILLS, Vlasta BREZOVA*

**10:30 - 11:00 COFFEE BREAK**

**11:00 - 12:30 POSTER SESSION IV: AOPs for water treatment, Coupling of AOPs with other processes**

**12:30 - 14:00 LUNCH**

**14:00 - 15:20 SESSION 2G: SEMICONDUCTOR PHOTOCATALYSIS**

**Session Chair: Michael HOFFMANN**

**14:00 - 14:20 O60: Metal-Oxide Heterojunction CVD Films for Environmental Applications**

*Raul QUESADA-CABRERA, University College London, London, United Kingdom*

**14:20 - 14:40 O61: Treatment of Indoor Air by Non Thermal Plasma, Photocatalysis and Plasma/Photocatalysis at Pilot Scale-Case of Trichloromethane**

*Abelkrim BOUZAZA, Institut des Sciences Chimiques de Renne, Rennes, France*

**14:40 - 15:00 O62: Characterization of Thermally Treated Anatase TiO<sub>2</sub> Supplemented by Oxygen Adsorption Measurements**

*Marina KRICHEVSKAYA, Tallinn University of Technology, Tallinn, Estonia*

**15:00 - 15:20 O63: Photocatalytic Silica-Titania Based Nanocomposite Paints**

*Jan ŠUBRT, Institute of Inorganic Chemistry of the CAS, Řež, Czech Republic*

**15:20 - 15:50 COFFEE BREAK**

**15:50 - 16:30 SESSION 17: COUPLING OF AOPs WITH OTHER PROCESSES**

**Session Chair: Vitor VILAR**

**15:50 - 16:10 O64: The Evaluation of Advanced Oxidation Processes for the Treatment of Effluents from Detergents-Manufacturing Industry**

*Daphne HERMOSILLA, University of Valladolid, Valladolid, Spain*

**16:10 - 16:30 O65: Evaluation of Natural Coagulant PGα21Ca Application Followed by Heterogeneous Photocatalysis on Tannery Wastewater Treatment**

*Ana UEDA, Federal University of Technology, Paraná, Brazil*

**16:30 - 16:50 STUDENT PAPER COMMUNICATIONS AWARDS**

**16:50 FINAL REMARKS**