



17

INTERNATIONAL  
CONFERENCE ON  
ENVIRONMENTAL  
SCIENCE &  
TECHNOLOGY

**athens / greece**  
**1-4/9 2021**

**Hybrid event**

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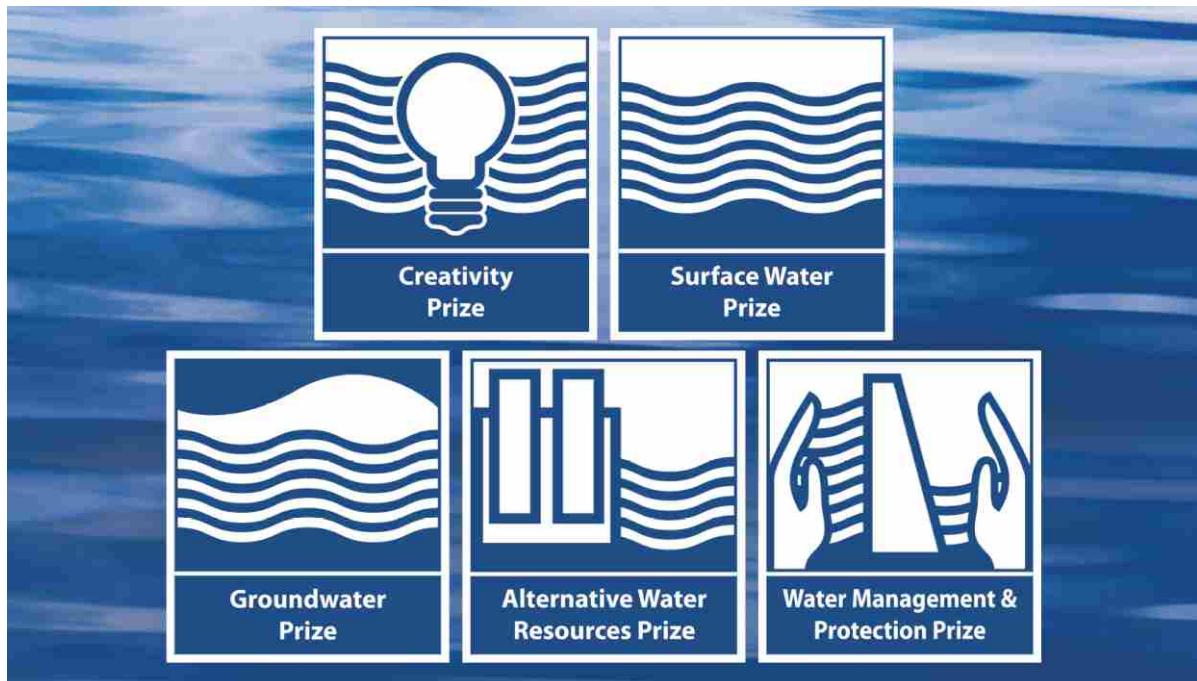
**Empowering science  
to deliver change**

**Programme**



## Prince Sultan Bin Abdulaziz International Prize for Water

Recognizing Innovation



Invitation for  
Nominations  
**10th Award (2022)**

Nominations  
open online until  
31 December  
2021

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# Welcome

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On behalf of the Organizing and Scientific Committees, it is our great pleasure to welcome you in Athens at the 17th International Conference on Environmental Science and Technology.

The conference will host 58 sessions and over 520 oral and poster presentations from all the fields of environmental science and technology. Apart from the presentations in the Opening Session, 7 plenary speeches and 3 side events have been scheduled.

This year, it is a special event, a new hybrid event. Its organization had several challenges. We have evolved from a typical conference – usually held in a hotel on a Greek island – to a new type to meet all the COVID restrictions and support a physical and a virtual event simultaneously. Our intention was to create a safe physical event and at the same time to support participants that could not travel, to participate and feel as close as possible to the conference rooms.

We are now welcoming all participants, those that traveled to Athens and those that will be participating through our new virtual platform <http://cest.grest.org>.

Personally, I would like to thank the conference committees for the excellent and fruitful collaboration, CEST staff, participants, session chairs, keynote and plenary speakers for helping us to build this very exciting hybrid conference program. Our team has been making significant effort so that your participation will be scientifically rewarding and at the same time you will enjoy your stay in Athens!

**Demetris F. Lekkas**

*CEST2021 chairman*



# CEST2021

**Man-made pressures** on the environment pose serious risk and often non reversible effects. The recent crisis (Covid-19 outbreak) is a reminder of the intimate relationship between humans, animals and the environment. It makes us think that there are several human rights related to the environment, our environmental rights. Without clean, safe, healthy, and sustainable ecosystems, numerous human rights cannot be fulfilled. What we can learn from Covid-19 outbreak is that we have not the privilege to wait for the next crisis to take preventive actions. For climate change, for biodiversity, for global health and above all for the sustainability of humanity.

**Environmental engineering** and science have provided solutions for nearly all the problems earth has faced. Most cities in developed countries operate wastewater treatment plants, drinking water treatment facilities and solid waste management systems to avoid further environmental damage. Still, 1 in 3 people globally do not have access to safe drinking water, and 40% suffer from the consequences of unacceptable hygiene conditions. Pathogenic micro-organisms are responsible for over 2 million deaths per year, with the highest percentage being reported to children under 5 years of age. On the other hand, the population growth leads to an increasing need for food production, which increases the pressures to natural resources which are by no means infinite. It seems now that our future depends on innovation and technological advances to significantly reduce the pressures and the energy input as well as to align production with the concept of circular economy. Academic research should

work together with the industry and the society. Through research, we are discovering new ways to implement advanced technologies, to address emerging environmental challenges as well as use research findings to influence policymakers and promote socially responsible policies.

**Established in 1989**, the International Conference on Environmental Science and Technology (CEST) is a leading environmental conference where top experts, scientists, entrepreneurs, representatives of public administration and social initiatives present state-of-the-art research on current and emerging environmental issues. CEST is thus a platform where academia and business converge; where academic research, innovative ideas and solutions serve as the basis for a cleaner, healthier and more sustainable environment.

**The conference is organised** bi-annually by the Global Network on Environmental Science and Technology together with the University of the Aegean (Greece). 2021 event is jointly organised with National and Kapodistrian University Of Athens and is academically supported by the University of Salerno (Italy), University of Cincinnati (USA) and Imperial College London (UK) as well as a group of distinguished scientists - the members of the Conference Scientific Committee. CEST2021 is under the patronage of UNESCO's Water Assessment Programme, International Water Association (IWA), A.C. Laskaridis Charitable Foundation and under the auspices of Ministry of Environment and Energy, Attica Region and the Municipality of Athens.

# Show me some stats!

CEST2021 is for everyone involved with environmental science and technology



4 days



58 sessions



3 workshops



640 attendees



18  
invited lectures



550+  
oral/poster  
presentations



12  
collaborating  
scientific journals

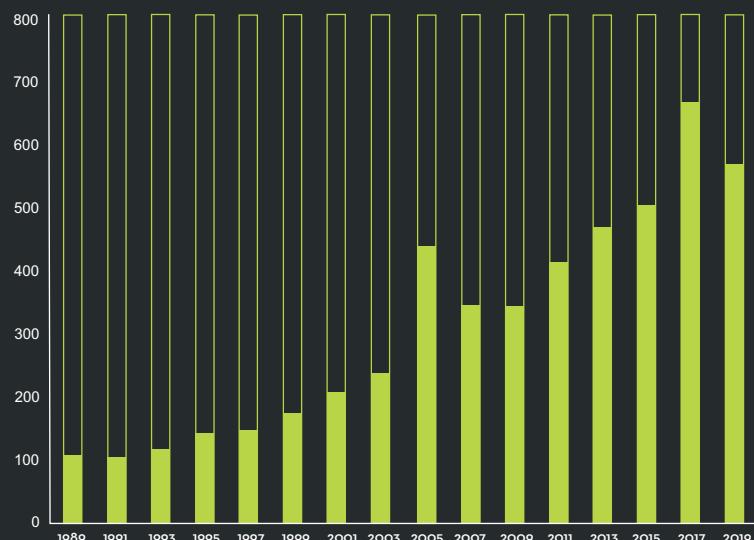
## CEST Series Metrics

**4991** papers presented  
(1989-2019)

**42** h-index

**5991** CEST citations\*

## Number of papers presented in CEST conferences (1989-2019)



\*refers to CEST papers published in special issues of the collaborating journals after 2007.

Data retrieved on August 2021

## Guide for delegates

### Venue

CEST2021 is pleased to announce that the conference will take place this year at **the central building of the National and Kapodistrian University of Athens** (30 Panepistimiou Str.), known as Propylaia, between **1 to 4 September 2021**.



### Conference language

The official conference language is **English**

### Liability

The Conference fees do not include provisions for the insurance of participants or their accompanying guests against personal injuries, sickness and theft or property damage. Participants are advised to arrange for any insurance they consider necessary. Neither the Conference Organising Committee, nor Scientific and Programme Committee Members assume any responsibility for loss, injury, or damage to persons or belongings, whatever the cause may be.

### Programme

**CEST2021** Scientific Programme includes:

**58 sessions**

running in **6-7 parallel rooms**

**3**  physical and **3-4**  virtual

with **318** Oral, **150** Flash, **65** Poster presentations.

The conference sessions cover **28 unique scientific topics**.

The **up-to-date programme** of each session is **posted every morning in front of the respective room or the respective poster area**.

# CEST2021 Conference Programme

## DAY 1 Wednesday 1 September ROOM A

### Opening

- 18:30 > 19:00 **Welcome speeches**
- 19:00 > 19:10 **Meet Global NEST**  
Dr. Demetris Francis Lekkas
- 19:10 > 19:20 **The role of Analytical Sciences and wastewater-based epidemiology under COVID-19 pandemic**  
Mr. Nikolaos S. Thomaidis
- 19:20 > 19:30 **Prince Sultan Bin Abdulaziz International Prize for Water**
- 19:30 > 20:00 **Green and healthy, the only way**  
Dr. Maria Neira
- 20:00 > 21:00 **Welcome cocktail**

## DAY 2 Thursday 2 September ROOM A

### Plenary Lecture: Dr. Manfred Rosenstock

- 09:00 > 09:30 **The European Green Deal - Environmental priorities and related R&I activities**  
Dr. Manfred Rosenstock

### Session 2(P) Hydrology and water resources

Chairs: Dr. Ilias Pechlivanidis, Prof. Evangelos Baltas

- 09:30 > 10:00 **Keynote presentation: Earth Observations as a driving force to co-evolve the agriculture sector**  
Dr. Ilias Pechlivanidis
- 10:15 > 10:30 **'Water Underground': Real-time, continuous monitoring of the underground water's quantity and quality**  
Dr. Michael Mavroforakis, Dr. Harris Georgiou, Mr. Vasilios Malisiovas, Mr. Constantinos Psychias, Mr. Dimitrios Papadimitriou, Mr. Konstantinos Sarioglou  
CEST ID: 305

- 10:30 > 10:45 **Evaluation of urban flood characteristics through the spatial analysis of flood-related factors and flood incidents recorded in the western side of Athens basin on October 24, 2014**  
Dr. E. Feloni, Prof. A. Anayiotos, Prof. Evangelos Baltas  
CEST ID: 611
- 10:45 > 11:00 **Potential location of early Neolithic sites in Crete and Cyprus: A GIS-based regional potamological approach**  
Dr. Christian Depraetere, Dr. Theodora Moutsiou  
CEST ID: 483
- 11:00 > 11:03 **Penetration of tritium into ground water in the Czech Republic**  
Dr. Eva Juranová, Mrs. Barbora Sedlá?ová, Dr. D. Marešová, Mrs. Irena Pohlová  
CEST ID: 429

### **Plenary Lecture: Prof. Damià Barceló**

- 11:30 > 12:00 **Macro-and micro-plastic litter and increased Covid-19 based plastic pollution in waters: environmental risks with focus on dose and threat to biodiversity**  
Prof. Damià Barceló

### **Session 8(P) Water and wastewater treatment and reuse**

Chairs: Dr. Georgia Antonopoulou

- 12:30 > 12:45 **Catalytic reduction of Cr(VI) using recovered Silicon from end-of-life photovoltaic panels as a catalyst**  
Mr. Charalampos Pavlopoulos, Ms. Vasiliki Kyriakopoulou, Dr. Konstantina Papadopoulou, Prof. Gerasimos Lyberatos  
CEST ID: 199
- 12:45 > 13:00 **Assessment of yields and properties of bioplastics production from acidified sugary wastewaters via mixed microbial cultures**  
Mrs. Elianta Kora, Mr. Panayiotis Tsaousis, Dr. Kostas S Andrikopoulos, Dr. Christos Chasapis, Dr. Ioanna Ntaikou, Dr. George Voyatzis, Prof. Gerasimos Lyberatos  
CEST ID: 378
- 13:00 > 13:15 **Nutrients recovery from anaerobic digestion effluent for the production of microalgae biomass**  
Ms. Paraskevi Psachoulia, Ms. Sofia-Natalia Schortsianiti, Ms. Ismini Dergiade, Prof. Christos Chatzidoukas, Prof. Petros Samaras  
CEST ID: 346
- 13:15 > 13:30 **Use of ornamental plants in floating treatment wetlands for greywater treatment in buildings: preliminary results**  
Mrs. Aimilia Stefanatou, Ms. Spyridoula Schiza, Dr. Ioanna Petousi, Dr. Anacleto Rizzo, Dr. Fabio Masi, Dr. Nikolaos Fyllas, Prof. Michalis Fountoulakis  
CEST ID: 608

- 13:30 > 13:33 **A comparison of electrooxidation of phenol on boron doped diamond and mixed metal oxide anodes**  
Ms. Tijana Djuricic, Ms. Helena Prosen, Mr. Aleksander Kravos, Mr. Sasa Micin, Mr. Borislav N. Malinovic  
CEST ID: 492
- 13:33 > 13:36 **Anaerobic Digestion of Municipal Wastewater (MWW) in a Periodic Anaerobic Baffled Reactor (PABR)**  
Mr. Achilleas Zarkaliou, Mr. Christos Kougias, Dr. Konstantina Papadopoulou, Prof. Gerasimos Lyberatos  
CEST ID: 314
- 13:36 > 13:39 **Comparison of the continuous fermentative hydrogen production efficiency from cheese whey in suspended and attached-biomass growth systems**  
Dr. MARIA ALEXANDROPOULOU, Prof. Gerasimos Lyberatos, Dr. GEORGIA ANTONOPOULOU  
CEST ID: 405
- 13:39 > 13:42 **Suspected-target screening for the assessment of pollutants in sewage sludge and assessment of their environmental risk**  
Mr. Rodrigo Álvarez-Ruiz, Mr. Alejandro Cuñat, Prof. Yolanda Picó  
CEST ID: 417

## **Session 14(P) Water and wastewater treatment and reuse**

Chairs: Dr. Ioanna Ntaikou, Dr. Maria G. Antoniou

- 15:00 > 15:15 **Hydrogen and organic acids production from mesophilic and thermophilic dark fermentation of sugarcane vinasse without buffers**  
Mrs. J. Cardoso Ribeiro, Ms. T. Vera Mota, Mrs. V. Maia de Oliveira, Mr. M. Zaiat  
CEST ID: 771
- 15:15 > 15:30 **Peracetic acid disinfection: An effective way to reduce antibiotics resistant bacteria from raw hospital wastewater**  
Dr. Ravi Kumar Chhetri, Mr. Diego Francisco Sanchez Urbina, Mrs. Sabine Lindholst, Dr. Caroline Kragelund Rickers, Mr. Thomas Elkær, Mr. Henning Gade, Mr. Jørgen Skaarup, Prof. Henrik Rasmus Andersen  
CEST ID: 670
- 15:30 > 15:45 **Continuous flow hydrodechlorination for micropollutants removal using an innovative Pd-based Catalytic Membrane Reactor**  
Ms. Julia Nieto-Sandoval, Dr. Esther Gomez-Herrero, Dr. Macarena Munoz, Prof. Zahara de Pedro, Prof. Jose Antonio Casas  
CEST ID: 760
- 15:45 > 16:00 **Risk analysis of pathogenic organisms during soil-aquifer treatment: application to a coastal aquifer in Cyprus**  
Dr. Constantinos F. Panagiotou, Dr. Popi Karaolia, Prof. Panos Papanastasiou, Dr. Christoph Sprenger  
CEST ID: 461

- 16:00 > 16:15 **Membrane Aerated Biofilm Reactor: A Correlation between Biofilm Thickness and Removal of Pharmaceuticals and Endocrinal Disruptor Compounds**  
Mr. Claudia Lorena Sanchez-Huerta, Dr. Fortunato Luca, Dr. Torove Leiknes, Prof. Peiying Hong  
CEST ID: 683
- 16:15 > 16:30 **Practical impediments to the effective utilization of Ballast Water Management Plan from Port facilities and Shipping practice**  
Mr. MICHAEL BOVIATSIS, Prof. Dionisios Polemis, Prof. Vasileios Tselentis  
CEST ID: 536
- 16:30 > 16:45 **AliCy as Extractant to Remove Iron from Copper-Free Extreme AMD for Further Extraction of Zinc**  
Mr. Amir Nobahar, Mr. Alemu B Melka, Mr. Luís L Neves, Dr. Jorge D Carlier, Prof. Maria Clara Costa  
CEST ID: 699
- 16:45 > 17:00 **Analyzing the impact of Pharmaceuticals and personal care products in L'Albufera Natural Park (Valencia, Spain)**  
Mr. Daniele Sadutto, Dr. Vicente Andreu, Dr. Timo Illo, Prof. Jarkko Akkanen, Prof. Yolanda Picó  
CEST ID: 442
- 17:00 > 17:03 **IMPROVING INNOVATION CAPACITIES OF PRIVATE AND PUBLIC ACTORS FOR SUSTAINABLE AND PROFITABLE RECYCLING OF LIVESTOCK WASTE**  
Prof. Maria G. Antoniou, Mrs. Nomiki I. Kallikazarou, Mrs. Emorfia Constantinide, Mr. Loukas Koutsokeras, Prof. Georgios Constantinides  
CEST ID: 36
- 17:03 > 17:06 **Aloe Vera waste for Methylene Blue (MB), Rhodamine B (RB) and Methyl Orange (MO) adsorption.**  
Mr. Leone Mazzeo, Dr. Irene Bavasso, Prof. Luca Di Palma  
CEST ID: 154
- 17:06 > 17:09 **Enhanced commercial and 3D-printed bio-carriers improve wastewater treatment performance: A critical mini-review**  
Dr. Dimitra C. Banti, Prof. Petros Samaras  
CEST ID: 663
- 17:09 > 17:12 **Monitoring and treatment of St. George lake to mitigate Cyanobacterial Harmful Algal Blooms (cyano-HABs)**  
Prof. Maria G. Antoniou, Mrs. Eleni Keliri, Ms. Christia Paraskeva, Mr. Angelos Sofokleous, Mr. Luc Brient, Dr. Ekaterina Chernova, Prof. Dariusz Dziga, Prof. Assaf Sukenik  
CEST ID: 40
- 17:12 > 17:15 **Photocatalytic Removal of Pesticides Present in Agro-industrial Water Effluents**  
Dr. Michalis K Arfanis, Mr. Georgios Theodorakopoulos, Dr. Christos Anagnostopoulos, Dr. Irene Georgaki, Dr. Konstantinos Liappis, Dr. Georgios Romanos, Dr. Emilia Markellou, Dr. Polycarpou Falaras  
CEST ID: 432

- 17:15 > 17:18 **Use of a two-stage MBBR system for medium-strength dairy wastewater treatment**

Mrs. Alexandra Katsara, Mrs. Athanasia Iliopoulou, Dr. Eirini Zkeri, Dr. Maria Aloupi, Prof. Michalis S Fountoulakis, Prof. Athanasios S Stasinakis

CEST ID: 183

## Round table

- 18:00 > 19:00 **“Adaptation to climate change, a driving force for the societies to transit to a greener future” Round table organized by Natural Environment and Climate Change Agency - NECCA**

Prof. Maria P. Papadopoulou, Prof. Costas Synolakis, Prof. Phoebe Koundouri, Mr. Christos Economou

## DAY 2 Thursday 2 September ROOM B

### Session 3(P) Solid waste management

Chairs: Dr. Demetris F. Lekkas, Prof. Antonis Zorpas

- 09:30 > 09:45 **Accumulation of microplastic in road dust and in soil alongside roads – a case study from the Eastern Region, Abu Dhabi**

Mr. Rana Zeeshan Habib, Dr. Ruwaya Al Kindi, Ms. Furtuna Ghebremedhin, Ms. Marim Elkashlan, Ms. Agatha I Ajejevbe, Prof. Thies Thiemann

CEST ID: 464

- 09:45 > 10:00 **Optimized use of biogenic waste streams through the combined production of bio-based products and bio-hydrogen**

Mr. M. Küppers, Dr. R. Brunstermann, Prof. R. Widmann

CEST ID: 769

- 10:00 > 10:15 **Effective separation of waste printed circuit boards using microwave-assisted organic swelling.**

Mrs. Bruno Monteiro, Dr. Liliana M. Martelo, Mrs. Paulo Sousa, Prof. Margarida Bastos, Prof. Helena Soares

CEST ID: 127

- 10:15 > 10:30 **Nothing to Waste: A Green Venture Business Model supporting local communities to Circular Economy pathways**

Dr. EFI TRITOPOULOU, Mr. Markos Malliaris, Mrs. Natali Cretsi Bacolas

CEST ID: 643

- 10:30 > 10:45 **Towards decentralizing the energy system: production of bioenergy and bioproducts via anaerobic digestion**

Prof. CHRISTOS VLACHOKOSTAS, Dr. ALEXANTRA MICHAILIDOU, Prof. CHARISIOS ACHILLAS, Prof. NICOLAS MOUSSIOPoulos

CEST ID: 665

- 10:45 > 11:00 **ANALYTICAL DEVELOPMENTS FOR PVC RADIOOXIDATION STUDY, IN SIMULATED DISPOSAL CONDITIONS**  
Mrs. Mathilde Chantreux, Dr. Stéphanie Rossignol, Dr. Denise Ricard, Dr. Pierre-Olivier Bussière, Dr. Sandrine Therias, Prof. Jean-Luc Gardette, Prof. Pascal Wong-Wah-Chung  
CEST ID: 374
- 11:00 > 11:15 **Declassification of drilling waste from oil & gas exploitation through end-of-waste criteria to be used as construction materials**  
Mr. Georgos Kazamias, Dr. Antonis A. Zorpas  
CEST ID: 487
- 11:15 > 11:18 **Performance evaluation of flue gas cured calcium rich fly ash based building blocks**  
Mr. Mustafa Cem Usta, Mr. Michael Ademola Adegbile, Dr. Andre Gregor, Mr. Peter Paaver, Mr. Tiina Hain, Dr. Can Rustu Yoruk, Dr. Mai Uibu, Prof. Andres Trikkel  
CEST ID: 333
- 11:18 > 11:21 **Material flow analysis applied to a waste treatment plant in Lombardy (Italy)**  
Ms. Francine Duarte Castro, Mr. Michele Fabbri, Mr. Mentore Vaccari, Ms. Laura Cutaia  
CEST ID: 277
- 11:21 > 11:24 **Preparation of carbon nanotubes from plastic solid wastes over magnetic nickel ferrite catalysts**  
Ms. Jessica Paula Marim Lopes, Ms. Fernanda Fontana Roman, Mr. Adriano Santos Silva, Dr. Jose Luis Diaz de Tuesta, Prof. Giane Gonçalvez Lenzi, Prof. Adrián M.T. Silva, Prof. Joaquim Luis Faria, Prof. Helder Teixeira Gomes  
CEST ID: 97
- 11:24 > 11:27 **Optimum technical operating conditions and treatments for the production of high-purity struvite fertilizer from livestock wastewater.**  
Mrs. Nomiki I. Kallikazarou, Mr. Loukas Koutsokeras, Mrs. Emorfia Constantinide, Prof. Georgios Constantinides, Prof. Maria G. Antoniou  
CEST ID: 309
- 11:27 > 11:30 **Modelling the hydrothermal carbonization of cheese whey wastewater in Lesvos island: an application of the 3-step evolution model**  
Mr. Panagiotis Fotios Chatzimaliakas, Prof. Stergios Vakalis  
CEST ID: 551

## **Session 9(P) Microplastics in water treatment: fate, toxicity assessment and removal technologies**

Chairs: Prof. Yolanda Picó, Prof. Damia Barcelo

- 12:30 > 12:45 **How does presence of microplastics impact biogas production?**  
Mrs. Nina Resnik, Prof. Andreja Žgajnar Gotvajn, Prof. Tjaša Griessler Bulc  
CEST ID: 114
- 12:45 > 13:00 **Role of microplastics as vector for pharmaceuticals in aquatic environment**  
Mrs. Josipa Papac, Mr. Marin Kovačić, Mr. Zvonimir Katančić, Mr. Hrvoje Kušić, Mrs. Zlata Hrnjak Murgić, Mrs. Ana Lončarić Božić, Mr. Panagiotis Karamanis  
CEST ID: 229

- 13:00 > 13:15 **The abundance, characteristics and risk of microplastics in surface water in urban artificial steams of Saudi Arabia**  
Prof. Damià Barceló, Prof. Ahmed H Alfarhan, Prof. Mohamed A. El-Sheikh, Prof. Yolanda Picó  
CEST ID: 440
- 13:15 > 13:30 **Interactions between microplastics and organic pollutants: Effects on transport and bioaccumulation: from the lab to the environment**  
Prof. Yolanda Picó, Dr. Julian.Campo@uv.es Julian Campo, Prof. Ahmed H Alfarhan, Prof. Mohamed A. El-Sheikh, Prof. Damià Barceló  
CEST ID: 441
- 13:30 > 13:45 **Detection of Microplastics using Laser-Induced Breakdown Spectroscopy - A first approach**  
Ms. Caroline Sommer, Dr. Lorenz Maximilian Schneider, Dr. Johnny Nguyen, Ms. Julia Anna Prume, Ms. Katharina Lautze, Prof. Martin Koch  
CEST ID: 150
- 13:45 > 14:00 **THE FATE OF MICROPLASTICS DURING THE ANAEROBIC DIGESTION OF THERMALLY PRETREATED SLUDGE**  
Prof. Alessandra Cesaro, Prof. Francesco Pirozzi, Prof. Antigoni Zafirakou, Ms. Akrivi Alexandraki  
CEST ID: 221
- 14:00 > 14:03 **Nanoplastics mineralization by the intensified photo-Fenton process**  
Mr. David Ortiz, Dr. Macarena Munoz, Dr. Jaime Carbajo, Prof. Zahara de Pedro, Prof. Jose Antonio Casas  
CEST ID: 766

## Session 15(P) Emerging Pollutants

Chairs: Prof. Nikolaos Thomaidis, Dr Pablo Gago-Ferrero

- 15:00 > 15:15 **Evidence of marine plastic particles transfer to the atmosphere through bubble bursting.**  
Dr. Stéphanie Rossignol, Mr. Brice Temime Roussel, Dr. Badr R'mili, Dr. Pierre-Olivier Bussière, Mr. David Bourgogne, Prof. Pascal Wong-Wah-Chung, Ms. Maria Masry  
CEST ID: 106
- 15:15 > 15:30 **Determination of Watch List chemicals in Irish surface waters: Chemical occurrence and analytical method challenges.**  
Prof. Fiona Regan, Ms. Imogen Hands, Mr. Helena Rapp Wright, Mr. Dylan O'Flynn, Mr. M Vickneswaren, Dr. Blanaid White  
CEST ID: 496
- 15:30 > 15:45 **Non-targeted screening workflows for gas chromatography – high-resolution mass spectrometry analysis to find and identify biomagnifying contaminants in biota samples**  
Mr. Andriy Rebryk, Prof. Peter Haglund  
CEST ID: 600

15:45 > 16:00	<b>Development and validation of a novel analytical protocol for the simultaneous determination of organic micropollutants in biota specimens by GC-APCI-QToF MS.</b> Ms. Anastasia Orfanioti, Dr. Georgios Gkotsis, Dr. Maria Christina Nika, Mr. Nikolaos S. Thomaidis CEST ID: 826
16:00 > 16:15	<b>Investigation of the influence of environmentally relevant pH values in the toxicity of the b-blocker Metoprolol in zebrafish (<i>Danio Rerio</i>) embryos through toxicokinetic approaches (uptake, bioaccumulation, and biotransformation)</b> Ms. Vasiliki Tzepkinli, Ms. Eleni Panagopoulou, Mr. Dimitrios Damalas, Dr. Reza Aalizadeh, Dr. Mona Schweizer, Prof. Heinz R. Kohler, Mr. Peter C. Von der Ohe, Mrs. Rita Triebeskorn, Mr. Nikolaos S. Thomaidis, Mr. Johann Hebel CEST ID: 828
16:15 > 16:30	<b>Cluster Analysis and Principal Component Analysis using Micropollutant Measurements on the Most Polluted Tributary of Ergene River: Çorlu Stream</b> Ms. Fulya Cingiroglu, Dr. SeyedMehdi Emadian, Prof. Ulas Tezel, Prof. Burcak Kaynak CEST ID: 671
16:30 > 16:45	<b>Development of a non-target screening workflow for the evaluation of micropollutants fate during oxidation processes</b> Mrs. Nina Huynh, Dr. Julien Le Roux, Mr. Jeremy Guyot, Prof. Régis Moilleron CEST ID: 350
16:45 > 16:48	<b>Assessment of the pH-effect on the toxicity, uptake &amp; biotransformation of Fluoxetine in Zebrafish (<i>Danio rerio</i>) embryos by LC-ESI-QTOFMS</b> Ms. Eleni Panagopoulou, Ms. Vasiliki Tzepkinli, Mr. Dimitrios Damalas, Dr. Reza Aalizadeh, Dr. Mona Schweizer, Prof. Heinz R. Kohler, Mr. Peter C. Von der Ohe, Mrs. Rita Triebeskorn, Mr. Nikolaos S. Thomaidis, Ms. Pia Berge Schulze CEST ID: 827
16:48 > 16:51	<b>Water quality monitoring in the Dnieper River Basin using advanced analytical methodologies</b> Mrs. K. Diamanti, Dr. Maria Christina Nika, Mr. Nikiforos Alygizakis, Dr. Marios Kostakis, Mrs. A. Koupa, Dr. Peter Oswald, Prof. L. Cirka, Dr. Jaroslav Slobodnik, Mr. Nikolaos S. Thomaidis CEST ID: 832
16:51 > 16:54	<b>Determination of the occurrence of pharmaceuticals in Irish surface waters</b> Mr. Dylan O'Flynn, Prof. Fiona Regan, Dr. Blanaid White, Ms. Imogen Hands, Dr. Jenny Lawler CEST ID: 495
16:54 > 17:10	<b>Revealing the presence of &gt;2,400 emerging contaminants in raptor egg specimens from Germany employing a novel analytical HRMS methodology</b> Ms. Antonia Athanasopoulou, Mr. Georgios Gkotsis, Mr. Konstantinos Vasilatos, Dr. Maria Christina Nika, Dr. Raphaela Osterauer, Mr. Nikolaos S. Thomaidis

**DAY 2 Thursday 2 September ROOM C**

## **Session 4(P) Advanced Oxidation Processes**

Chairs: Dr. Zacharias Frontistis, Prof. Andreja Žgajnar Gotvajn, Dr. Polycarpos Falaras

- 09:30 > 09:45 **Mitigation of *Microcystis* sp. with metallic peroxide granules: matrix effect on hydrogen peroxide release kinetics and toxicity study on invertebrates**  
Mrs. Eleni Keliri, Mr. Manolis Christofi, Mr. Nektarios Efstatithiou, Prof. Maria G. Antoniou  
CEST ID: 37
- 09:45 > 10:00 **Catalytic Enhancement of Ozone-Based Processes for Removal of Selected Antibiotics from Wastewaters**  
Prof. Andreja Žgajnar Gotvajn, Prof. Jan Dercó, Mrs. Teja Antoni?i?, Mr. Martin Vrabel  
CEST ID: 57
- 10:00 > 10:15 **Investigation of variables affecting UV-LED photocatalytic degradation of antibiotics ciprofloxacin and sulfamethoxazole**  
Mr. Danilo Bertagna Silva, Dr. Gianluigi Buttiglieri, Prof. Sandra Babi?  
CEST ID: 65
- 10:15 > 10:30 **New pillared clays for the removal of pollutants from wastewater by treatment with oxidation processes**  
Dr. Marzhan Seitovna Kalmakhanova, Prof. Baktygul Massalimova, Dr. Jose Luis Diaz de Tuesta, Prof. Helder Teixeira Gomes  
CEST ID: 72
- 10:30 > 10:45 **Performance of metal-free carbonaceous catalysts in the removal of paracetamol by catalytic wet peroxide oxidation**  
Mr. Adriano Santos Silva, Mr. Adriano Henrique, Dr. Hendryk Steldinger, Dr. Jose Luis Diaz de Tuesta, Dr. Jan Gläsel, Prof. Jose António Correia Silva, Prof. Bastian J. M. Etzold, Prof. Helder Teixeira Gomes  
CEST ID: 107
- 10:45 > 11:00 **Selective denitrification of lipophilic pollutants from oily wastewater by peroxidation using Janus-structured amphiphilic carbon nanotubes as catalysts**  
Ms. Flávia Kim Kobayashi Sanches, Ms. Fernanda Fontana Roman, Mr. Adriano Santos Silva, Dr. Jose Luis Diaz de Tuesta, Prof. Pricila Marin, Dr. Bruno F. Machado, Dr. Philippe Serp, Prof. Adrián M.T. Silva, Prof. Helder Teixeira Gomes  
CEST ID: 125
- 11:00 > 11:15 **Can mixed oxides act as efficient photocatalysts for the elimination of organic water pollutants?**  
Mrs. Lidia Favier, Ms. Amalia-Maria Sescu, Mrs. Maria HARJA, Mr. Samy Siamer, Mrs. Doina Lutic  
CEST ID: 615
- 11:15 > 11:18 **Sonolytic and hybrid-sonolytic degradation of 6-hydroxy-methyl uracil, a model compound for the study of cyanotoxin cylindrospermopsin.**  
Mr. Christophoros E. Christophoridis, Mr. Nikolaos S. Thomaidis, Ms. Erasmia A. Bizani, Mr. Evangelos Synefakis, Ms. Maria Voumvouraki, Ms. Anastasia Hiskia  
CEST ID: 824

11:18 > 11:21 **Silver decorated TiO<sub>2</sub>/g-C<sub>3</sub>N<sub>4</sub> nanocomposites for photocatalytic elimination of water pollutants under UV and artificial solar light**

Mr. Islam Ibrahim, Mr. George V Belessiotis, Dr. Andreas Kaltzoglou, Dr. Fotios Katsaros, Prof. Tarek M Salama, Dr. Polycarpos Falaras

CEST ID: 151

## Session 10(P) Advanced Oxidation Processes

Chairs: Dr. Zacharias Frontistis

12:30 > 12:45 **?exavalent chromium reduction in a photocatalytic membrane reactor in the presence of organic acids**

Mr. Vasiliros Sarasidis, Ms. E. Kyriakou, Dr. Konstantinos V Plakas, Prof. Anastasios J Karabelas

CEST ID: 419

12:45 > 13:00 **Degradation of refractory compounds in industrial wastewaters by advanced technologies based on electrochemical and photochemical oxidation**

Ms. Panagiota Petsi, Mr. Vasiliros Sarasidis, Dr. Konstantinos V Plakas, Prof. Anastasios J Karabelas

CEST ID: 355

13:00 > 13:15 **Preliminary Research on Removal of Organic Substances Contained in Wastewater from Plastic Lenses Production**

Dr. Katarzyna Umiejewska, Mr. Micha? Ró?ycki

CEST ID: 359

13:15 > 13:30 **SELECTED APPLICATIONS of CAVITATION BASED ADVANCED OXIDATION PROCESSES (AOPs) for TREATMENT of WATER and INDUSTRIAL EFFLUENTS**

Mr. Kirill Fedorov, Mrs. Elvana Cako, Prof. Grzegorz Boczkaj

CEST ID: 364

13:30 > 13:45 **Destruction of anthracene and phenanthrene using PDS/UV, one of advanced oxidation processes in terms of degree of destruction and by-products.**

Mr. Micha? Nowakowski, Ms. Ewelina Czy?, Dr. Robert Wolski, Prof. Przemys?aw Andrzejewski

CEST ID: 468

13:45 > 13:48 **Carbon nanotubes synthesized from LDPE for application in wet peroxide oxidation of paracetamol**

Ms. Fernanda Fontana Roman, Ms. Jessica Paula Marim Lopes, Dr. Jose Luis Diaz de Tuesta, Prof. Giane Gonçalvez Lenzi, Prof. Adrián M.T. Silva, Prof. Joaquim Luis Faria, Prof. Helder Teixeira Gomes

CEST ID: 113

13:48 > 13:51 **Magnetic CoFe<sub>2</sub>O<sub>4</sub>@carbon yolk-shell nanoparticles as catalysts for the catalytic wet peroxide of paracetamol**

Mr. Adriano Santos Silva, Mr. Nathália Maria Costa Guari, Dr. Jose Luis Diaz de Tuesta, Prof. Walmir Eno Pottker, Prof. Patricia Hissae Yassue Cordeiro, Prof. Helder Teixeira Gomes

CEST ID: 126

- 13:51 > 13:54 **Application of carbon-based catalysts derived from compost on catalytic wet peroxide oxidation of leachate waters from mechanical and biological treatment plant units for municipal solid waste**  
Mr. Gabriel De Freitas Batista, Ms. Fernanda Fontana Roman, Dr. Jose Luis Diaz de Tuesta, Prof. Raquel Vieira Mambrini, Prof. Helder Teixeira Gomes  
CEST ID: 152
- 13:54 > 14:09 **Heterogeneous activation of persulfate by LaSrNiGaO<sub>3</sub>**  
Mr. K Kouvelis, Dr. A Petala, Dr. G Bampas, Dr. Z Frontistis, Dr. D. Kondarides  
CEST ID: 520

## **Session 16(P) Climate change mitigation and adaptation**

Chairs: Prof. Maria Papadopoulou

- 15:00 > 15:15 **Stakeholder Mapping & Analysis for Climate Change Adaptation in Greece**  
Mrs. Ioanna Nydrioti, Mrs. Pipina Katsiardi, Mrs. Despina Chioti, Dr. Ioannis Sebos, Prof. Dionysios Assimacopoulos  
CEST ID: 142
- 15:15 > 15:30 **Dairy farms management and carbon storage in the soil fractions**  
Dr. Nuria Ferreiro-Domínguez, Dr. Antonio Rigueiro-Rodríguez, Dr. Marta Miranda, Dr. María Rosa Mosquera-Losada  
CEST ID: 302
- 15:30 > 15:45 **Effect of the forage maize-pasture rotation on the soil carbon storage in Galicia (NW Spain)**  
Dr. Nuria Ferreiro-Domínguez, Dr. Antonio Rigueiro-Rodríguez, Dr. María Rosa Mosquera-Losada  
CEST ID: 306
- 15:45 > 16:00 **Effects of light stress on wheat and rye varieties grain composition**  
Mrs. Tamara Isabel Franco-Grandas, Dr. Vanessa Álvarez-López, Dr. María Rosa Mosquera-Losada  
CEST ID: 780
- 16:00 > 16:15 **Effect of shade on production and grain yield in greenhouse wheat varieties**  
Dr. María Rosa Mosquera-Losada, Mrs. Tamara Isabel Franco-Grandas, Dr. Antonio Rigueiro-Rodríguez, Dr. Vanessa Álvarez-López  
CEST ID: 779
- 16:15 > 16:30 **Sustainable development assessment on Grass-based circular business models for rural agri-food value chains (GO-GRASS)**  
Dr. María Rosa Mosquera-Losada, Dr. Francisco Javier Rodríguez-Rigueiro, Dr. Nuria Ferreiro-Domínguez, Dr. Vanessa Álvarez-López, Mrs. Tamara Isabel Franco-Grandas, Dr. Antonio Rigueiro-Rodríguez, Dr. Jose Javier Santiago-Freijanes, Mr. Richard Orozco, Mr. Muluken Elias Adamsegued, Mr. Philipp Grundmann  
CEST ID: 787
- 16:30 > 16:45 **Livestock Greenhouse Gases emissions and its contribution to Climate Change. The case study of a Cyprus cow farm**  
Ms. PANTELITSA LOIZIA, Ms. IRENE VOUKKALI, Dr. Antonis A. Zorbas  
CEST ID: 50

- 16:45 > 17:00 **Integrating Seaport Infrastructure Monitoring Approaches to Improve Smartness and Climate Adaptive Capacity**  
Mrs. C. N. Tsaimou, Mrs. V. I. Chalastani, Mr. P. Sartampakos, Prof. Vasiliki Tsoukala  
CEST ID: 123
- 17:00 > 17:03 **Precipitation variability, trends and extremes for the region of the Arabian Peninsula**  
Dr. P. Patlakas, Dr. C. Stathopoulos, Prof. G. Kallos, Prof. H. Flocas  
CEST ID: 853

## DAY 2 Thursday 2 September ROOM VR1

### Session 5(V) Climate change mitigation and adaptation

Chairs: Dr. Konstantinos Evangelinos

- 09:30 > 09:45 **Studies on the CO<sub>2</sub> adsorption onto coal fly ash zeolites at elevated pressures**  
Prof. Silviya V. Boycheva, Dr. Denitza M. Zgureva  
CEST ID: 298
- 09:45 > 10:00 **Mitigation potentials of tree-crops: An economic evaluation of trading-off carbon sequestration with actual market goods.**  
Prof. Kostas Bithas, Prof. Dionysis Latinopoulos  
CEST ID: 635
- 10:00 > 10:15 **Microalgae biofixation efficiency of carbon dioxide through innovative planar photobioreactor.**  
Mr. Vincenzo Andrea Riggio, Ms. Valentina Costantino, Ms. Clara Derossi, Mrs. Mariachiara Zanetti, Mr. Michele Carone, Mr. Davis Alpe, Mr. Andrea Occhipinti  
CEST ID: 404
- 10:15 > 10:30 **Environmental Monitoring from Space & Geoinformation through the Excelsior H2020 Teaming Project**  
Dr. Marios Tzouvaras, Dr. Christiana Papoutsas, Dr. Rodanthi-Elisavet Mamouri, Dr. Argyro Nisantzi, Mr. Christodoulos Mettas, Mr. Evagoras Evagorou, Ms. Maria Prodromou, Ms. Eleni Loulli, Dr. George Melilios, Dr. Evangelos Akylas, Dr. Christos Danezis, Prof. Phaedon Kyriakidis, Dr. Kyriacos Themistocleous, Mr. Gunter Schreier, Dr. Charalampos Kontoes, Dr. Albert Ansmann, Dr. Johannes Bühl, Mr. George Komodromos, Prof. Diofantos G. Hadjimitsis  
CEST ID: 262
- 10:30 > 10:45 **Climate Change and Local Governance: Politics, Policies and Prioritization of Adaptation in Adansi North District**  
Mr. Kirk Bright Enu, Prof. Albert Ahenkan, Dr. Emmanuel Ackom  
CEST ID: 361
- 10:45 > 11:00 **ENERGY TRANSITION IN WEST MACEDONIA. WHAT IS THE PUBLIC ATTITUDE OF LOCAL SOCIETY?**  
Mrs. Despoina Boulogiorgou, Prof. Emilia N Kondili, Prof. Athanasios G Triantafyllou, Prof. J. Kaldellis  
CEST ID: 800

- 11:00 > 11:03 **Development of an urban resilience indicator for Athens in the context of climate change**  
Mr. Anastasios Polydoros, Mrs. Thaleia Mavrakou, Prof. Constantinos Cartalis  
CEST ID: 271
- 11:03 > 11:06 **Studies on the CO<sub>2</sub> adsorption mechanism of Na-X and Na-Ca-X coal fly ash zeolites**  
Prof. Silviya V. Boycheva, Mrs. Hristina I. Lazarova, Dr. Denitza M. Zgureva, Prof. Margarita D. Popova  
CEST ID: 296
- 11:06 > 11:09 **Assessing small & medium-sized enterprises' resilience capacity to flooding: Evidence from a structural equation model**  
Dr. A. Skouloudis, Prof. K. Evangelinos, Dr. P. Vouros, Prof. I. Nikolaou, Dr. t. Tsalis  
CEST ID: 579
- 11:09 > 11:12 **Monitoring of soil Greenhouse Gases emissions from a controlled burnt area combined with guided herbivory**  
Dr. María Rosa Mosquera-Losada, Dr. Nuria Ferreiro-Domínguez, Dr. Vanessa Álvarez-López, Mr. Jose Javier Santiago-Freijanes  
CEST ID: 782
- 11:12 > 11:15 **Climate Adaptation and Local Institutions: An Assessment of The Adaptive Capacities of Key Sectors in Adansi North District**  
Mr. Kirk Bright Enu, Prof. Albert Ahenkan, Dr. Emmanuel Ackom, Dr. Divine Odame Appiah  
CEST ID: 362

## **Session 11(V) Desalination**

Chairs: Dr. Shadi W. Hasan

- 12:30 > 12:45 **Novel super-hydrophobic carbon nanotube-based nanomaterial for membrane distillation**  
Mr. Mariam Ouda, Dr. Vijay S Wadi, Mr. Abdul Hai, Prof. Vincenzo Naddeo, Dr. Fawzi Banat, Prof. ?Shadi Wajih Hasan  
CEST ID: 207
- 12:45 > 13:00 **SUPERHYDROPHOBIC NANOPARTICLE-COATED PVDF-HFP MEMBRANES FOR INCREASED FLUX AND FOULING RESISTANCE MEMBRANE DISTILLATION**  
Mr. IOANNIS TOURNIS, Dr. DIMITRIOS TSIOURVAS, Dr. ZILI SIDERATO, Dr. ANDREAS SAPALIDIS  
CEST ID: 208
- 13:00 > 13:15 **The thermodynamic model of improved desalination using hydrophobic polyelectrolyte gels**  
Dr. Oleg Rud, Ms. Varvara Prokacheva, Dr. Filip Uhlik  
CEST ID: 471

13:15 > 13:30	<b>Gravity-driven oil/water separation using PVDF-HFP electrospun nanofiber membranes</b>
	Dr. Musthafa Odayooth Mavukkandy, Mr. Yazan Ibrahim, Dr. Faisal Almarzooqi, Prof. Vincenzo Naddeo, Dr. Emad Alhseinat, Prof. Georgios N Karanikolos, Dr. Fawzi Banat, Prof. ?Shadi Wajih Hasan
	CEST ID: 110
13:30 > 13:45	<b>Preparation and characterization of f-MWCNT-GO self-assembled polymeric nanocomposite membrane for wastewater treatment</b>
	Ms. Lobna Nassar, Ms. Hiyam Hisham Khalil, Dr. Vijay S Wadi, Prof. Vincenzo Naddeo, Dr. Fawzi Banat, Prof. ?Shadi Wajih Hasan
	CEST ID: 157
13:45 > 14:00	<b>Synthesis of self-assembled graphene oxide (GO)/manganese oxide (MnO<sub>2</sub>) sulfonated-polyethersulfone (SPES) membranes for heavy metal removal from wastewater</b>
	Mr. Yazan Ibrahim, Dr. Vijay S Wadi, Mr. Mariam Ouda, Prof. Vincenzo Naddeo, Dr. Fawzi Banat, Prof. ?Shadi Wajih Hasan
	CEST ID: 181
14:00 > 14:15	<b>Effect of current density value and current application period on the wastewater treatment performance of Electrochemically Enhanced Self-Forming Dynamic Membrane Bioreactors (e-SFDMBRs)</b>
	Mr. J. Almalvez, Ms. M. Morales-Corpuz, Dr. L. Borea, Mr. F. Castrogiovanni, Mr. P. Napodano, Prof. Vincenzo Belgiorno, Prof. Vincenzo Naddeo, Dr. F. Ballesteros
	CEST ID: 234
14:15 > 14:30	<b>Integration of negatively charged MWCNT-fGO self-assembled nanomaterials into PLA polymeric membranes for wastewater treatment</b>
	Ms. Hiyam Hisham Khalil, Ms. Lobna Nassar, Dr. Vijay S Wadi, Prof. Vincenzo Naddeo, Dr. Fawzi Banat, Prof. ?Shadi Wajih Hasan
	CEST ID: 161

## Session 17(V) Environmental data analysis and modelling

Chairs: Dr. Giuseppina Oliva

15:00 > 15:15	<b>Is Greece greener than the data shows? Calculation of Green GDP and comparison with neighboring countries</b>
	Prof. Saša Stjepanovi?, Prof. Marinko Škare, Prof. Daniel Tomi?
	CEST ID: 393
15:15 > 15:30	<b>A data-driven approach to predict phytoplankton blooms using satellite-derived water quality and hydrometeorological drivers</b>
	Dr. Kyriakos Kandris, Mr. Evangelos Romas, Mr. Apostolis Tzimas, Dr. Mariano Bresciani, Dr. Claudia Giardino, Mr. Philip Bauer, Dr. Ilias Pechlivanidis, Mrs. Maria Antonietta Dessenai
	CEST ID: 420
15:30 > 15:45	<b>Comparison of regression model and artificial neural network model in noise prediction in a mixed area of Dhaka City</b>
	Mr. Sagupth Alam Zarif, Mrs. Tajkia Syeed Tofa, Mr. Mubashir Shabab Laskar, Mr. Vuban Chowdhury
	CEST ID: 482

- 15:45 > 16:00 **P-recovery from sewage sludge ash: Processing effects on ash variability as assessed by Monte Carlo Simulation**  
Ms. Svenja Vogt, Dr. Felix Brück, Mr. Kevin Schnabel, Prof. Harald Weigand  
CEST ID: 136
- 16:00 > 16:15 **Exploitation of Crowdsourcing Tools and Earth Observation data: A Systematic Literature Review**  
Ms. D. Tsiakou, Mr. Georgios Tsimiklis, Mr. V. Tsiakos, Ms. K. Karagiannopoulou, Dr. A. Amditis  
CEST ID: 182
- 16:15 > 16:30 **Understanding the EU ETS Market Structure using Transactions of Core Participants**  
Mr. Sotirios Dimos, Mrs. Eleni Evangelatou, Prof. Dimitris Fotakis, Mr. Andreas Mantis, Mrs. Angeliki Mathioudaki  
CEST ID: 522
- 16:30 > 16:45 **DYNAMIC AND EMBEDDED MULTICRITERIA ASSESSMENT METHODOLOGY FOR THE ENVIRONMENTAL MONITORING AND CONTROL OF LARGE CIVIL ENGINEERING PROJECTS**  
Prof. Tiziano Zarra, Dr. Giuseppina Oliva, Dr. Vincenzo Senatore, Mr. V. Marino, Prof. Vincenzo Belgiorno, Prof. Vincenzo Naddeo  
CEST ID: 580
- 16:45 > 17:00 **An Advanced Boussinesq-Type Model for Wave Propagation in Coastal and Harbour Areas**  
Dr. A. S. Metallinos, Dr. M. K. Chondros, Mr. A. G. Papadimitriou  
CEST ID: 743
- 17:00 > 17:15 **Study of the Airflow Around the Occupants in a Virtual Chamber Equipped with Impingement Ventilation System**  
Prof. Eusébio Zeferino Encarnação da Conceição, Dr. Mª Inês L. Conceição, Dr. Mª Manuela J. R. Lúcio, Prof. João M. M. Gomes, Dr. André B Ramos, Prof. Hazim B. Awbi  
CEST ID: 691
- 17:15 > 17:18 **The expected dynamics of the wind conditions in the West Iberian nearshore, in the context of the climate change**  
Prof. Eugen RUSU  
CEST ID: 323
- 17:18 > 17:21 **Assessment of thermal indices applicability in Cyprus**  
Dr. Katerina Pantavou, Mr. George Giallouros, Dr. Spyridon Lykoudis, Dr. Georgios Nikolopoulos  
CEST ID: 249
- 17:21 > 17:24 **Pedestrian preferences of urban design features in city squares of Athens, Greece**  
Dr. Katerina Pantavou, Mr. Ioannis Koletsis, Dr. Spyridon Lykoudis, Prof. Ioannis X Tsilos  
CEST ID: 254
- 17:24 > 17:27 **Nonlinear Autoregressive Neural Networks for Air Temperature forecasting**  
Dr. Konstantinos Philippopoulos, Prof. Chris G. Tzanis, Prof. Despina Deligiorgi, Mr. Anastasios Alimisis  
CEST ID: 485

- 17:27 > 17:30 **The potential of UAV multispectral imagery to estimate chlorophyll content of vine leaves**  
Dr. Garegin Tepanosyan, Dr. Vahagn Muradyan, Ms. Azatuhi Hovsepyan, Mr. Grigor Ayvazyan, Ms. Rima Avetisyan, Dr. Shushanik Asmaryan  
CEST ID: 131
- 17:30 > 17:33 **Dual Discounting for the Environmental Decision-Making**  
Dr. Gabriella Maselli, Prof. Antonio Nesticò  
CEST ID: 523

## DAY 2 Thursday 2 September ROOM VR2

### Session 6(V) Heavy metals in the environment

Chairs: Prof. Nikos Lydakis-Simantiris, Dr. Helena Soares

- 09:30 > 09:45 **On the geochemistry of Gialova lagoon, SW Peloponnesus, Greece**  
Ms. Maria Papakonstantinou, Mr. Spyros Sergiou, Mr. X Dimas, Dr. E Fakiris, Dr. Dimitris Christodoulou, Prof. M Geraga, Prof. G Papatheodorou  
CEST ID: 573
- 09:45 > 10:00 **Selenate uptake by Chlamydomonas reinhardtii Algal Cells, its Transformation and its Effect on Membrane Lipid Profiles**  
Dr. Eirini Zkeri, Mr. E. Mavrakis, Ms. G. Panagou, Ms. S. Grafanaki, Prof. S. Pergantis, Prof. N. Lydakis-Simantiris  
CEST ID: 831
- 10:00 > 10:15 **CO<sub>2</sub>-Uptake Enhances Chromate Release from Fresh Chromium Ore Processing Residues (COPR)**  
Mr. F. Lapp, Dr. Felix Brück, Prof. T. Mansfeldt, Dr. R. Dohrmann, Dr. J. Göske, Prof. Harald Weigand  
CEST ID: 294
- 10:15 > 10:30 **Effect of pH on Release of Metals from Conventional and Cool Cement Blocks**  
Mr. V. Soultanidis, Mr. J. Papaspiros, Prof. E. Voudrias  
CEST ID: 675
- 10:30 > 10:33 **Coupling Pb and Zn bioaccessibility with sequential and HNO<sub>3</sub> extraction in soil from the industrial area of Volos, Greece**  
Dr. Efstratios Kelepertzis, Dr. F. Botsou, Prof. Ali Sungur, Mrs. Evangelia Sigala, Mrs. Ourania Daferera, Dr. Zacharenia Kyprtidou, Prof. Vlada CHRASTNÝ, Prof. Ariadne Argyraki, Prof. Michael Komarek, Prof. Konstantinos Skordas  
CEST ID: 39
- 10:33 > 10:36 **Mercury in the coastal waters of Greece under the implementation of the Water Framework Directive (WFD)**  
Ms. A. Yfanti, Dr. V. Paraskevopoulou, Dr. O. Chalkiadaki, Dr. F. Botsou, Ms. G. I. Panagopoulou, Dr. E. Stathopoulou, Dr. C. Zeri, Mrs. E. Tzempelikou, Prof. MANOS DASSENAKIS  
CEST ID: 79

- 10:36 > 10:39 **Changes of Photosynthetic Performance of Brassica napus Affecting Cadmium Phytoextraction Performance under Elevated Temperature, CO<sub>2</sub> and Drought**  
Dr. Austra Dikšaityt?, Dr. J?rat? Žaltauskait?, Ms. Inesa Kniuipyty?, Dr. Irena Januškaitien?, Prof. Romualdas Juknys  
CEST ID: 295
- 10:39 > 10:42 **Heavy metals in soil, sediments, and water from Lake Ohrid catchment (Albania)**  
Prof. Aida Bani, Prof. Seit Shallari, Dr. Irena Duka  
CEST ID: 168

## **Session 12(V) Soil and groundwater contamination and remediation**

Chairs: Dr. Iraklis Panagiotakis, Prof. Dimitris Dermatas

- 12:30 > 13:00 **Keynote presentation: Soil Policy in the Netherlands. Collaboration is the key to impact**  
Mrs. Margot de Cleen
- 13:00 > 13:15 **Trifluralin-polluted soil treatment using nanosecond pulsed DBD plasma**  
Mrs. Maria Hatzisymeon, Dr. Despoina Tataraki, Prof. Gerasimos Rassias, Dr. CHRISTOS ANDREAS AGGELOPOULOS  
CEST ID: 47
- 13:15 > 13:30 **Implementation of hydroseeding methods as bioengineering techniques for soil stabilization and reclamation projections**  
Mr. George Kolkos, Prof. Anastasia Stergiadou  
CEST ID: 104
- 13:30 > 13:45 **In-situ bioremediation of groundwater polluted with Cr(VI) under anaerobic conditions**  
Ms. Andriani Galani, Ms. Petra Anastopoulou, Mr. Constantinos Noutsopoulos, Mr. Daniel Mamais  
CEST ID: 281
- 13:45 > 14:00 **PFAS removal performance of novel technologies for treatment of firefighting water and groundwater**  
Mr. Markus Hjort, Mr. Joost Dalmijn, Dr. Kees Roest, Dr. Thomas ter Laak, Dr. Eleni Vaiopoulou  
CEST ID: 761
- 14:00 > 14:03 **Groundwater Flow Dynamics in Shallow Coastal Plain Sands Aquifer, Abesan Area, Eastern Dahomey Basin, Southwestern Nigeria.**  
Ms. Anne Ayomiposi Joseph  
CEST ID: 623
- 14:03 > 14:06 **Modelling the evaporation flux from shallow sandy aquifers**  
Prof. Mohammad S Al-suwayyan  
CEST ID: 736
- 14:06 > 14:09 **Biodegradation of anthracene by an Antarctic fungal strain a member of genus Alternaria**  
Dr. Maria Gerginova, Dr. Katya Stoyanova, Mrs. Nadejda Peneva, Prof. Zlatka Alexieva  
CEST ID: 649

- 14:09 > 14:12 **Study of the potential of Rhodococcus strains for degradation of the pesticide Glyphosate (Roundup)**  
Dr. Maria Gerginova, Mrs. Nadejda Peneva, Prof. Zlatka Alexieva  
CEST ID: 133
- Session 18(V) SUSTAINABLE WATER MANAGEMENT IN THE MEDITERRANEAN – TECHNOLOGICAL SOLUTIONS, DEMONSTRATION AND DEPLOYMENT**
- Chairs: Dr. Konstantinos Plakas
- 15:00 > 15:15 **Application of two different strategies for the simultaneous disinfection and decontamination of urban wastewater using solar photo-Fenton and solar/H<sub>2</sub>O<sub>2</sub> processes**  
Dr. G. Maniakova, Dr. I. Salmeron, Dr. M.I. Polo-López, Dr. I. Oller, Prof. Luigi Rizzo, Prof. S. Malato  
CEST ID: 744
- 15:15 > 15:30 **Fostering the non-conventional water re-use in agriculture in Mediterranean countries: the MENAWARA project**  
Dr. Alberto Carletti, Dr. Alessandra Paulotto, Dr. Roula Khadra, Dr. Isabel Martin, Dr. Khalid Fahd, Dr. Juan José Salas, Dr. Taysir Arbasi, Dr. Giovanni Pedron, Dr. Thameur Jaouadi, Dr. Tarek Chaabouni, Dr. Naem Mazahrih  
CEST ID: 805
- 15:30 > 15:45 **Development and demonstration of an eco-innovative system for sustainable treatment and reuse of municipal wastewater in small and medium size communities in the Mediterranean region**  
Dr. Konstantinos V Plakas, Prof. Anastasios J Karabelas, Dr. Vasilis Takavakoglou, Mr. Vasilis Chatzis, Dr. I. Oller, Dr. M.I. Polo-López, Dr. Tawfik Al-Naboulsi, Prof. Ahmad El Moll, Mr. Hamadi Kallali, Ms. Khitem Mensi, Mr. Fadhel M'hiri, Mr. Pedro J Simon Andreu  
CEST ID: 806
- 15:45 > 16:00 **Exploring the Living Lab approach for developing sustainable wastewater treatment and reuse systems in Mediterranean agriculture**  
Dr. Roula Khadra, Dr. G Dragonetti, Dr. Alessandra Paulotto, Dr. Isabel Martin, Dr. Taysir Arbasi, Dr. Thameur Jaouadi, Dr. N Mazahreh, Dr. A Balawneh, Dr. Alberto Carletti  
CEST ID: 807
- 16:00 > 16:15 **Floating wetlands as Nature-based Solutions for marine water pollution control in Mediterranean: Challenges and future perspectives**  
Dr. Vasileios Takavakoglou, Mrs. Eleanna Pana, Dr. Konstantinos V Plakas  
CEST ID: 810
- 16:15 > 16:30 **Green walls for greywater treatment and reuse in Mediterranean countries**  
Mr. Nicola Martinuzzi, Ms. Kathryn Rivai, Dr. Anacleto Rizzo, Dr. Fabio Masi, Ms. Barbara Sarnari, Mrs. Latifa BOUSSELM  
CEST ID: 811

16:30 > 16:45	<b>SWOT analysis of the institutional, policy and regulatory framework governing wastewater treatment and reuse in Tunisia, Lebanon and Spain</b> Mr. Hamadi Kallali, Dr. Konstantinos V Plakas, Mrs. Eleanna Pana, Prof. Anastasios J Karabelas, Mr. Dirk De Ketelaere, Mrs. Anna Spiteri, Prof. Ahmad El Moll, Dr. Tawfik Al-Naboulsi, Ms. Khitem Mensi, Mrs. Sonia Jbeli, Mr. Fadhel M'hiri, Mr. Pedro J Simon Andreu, Mr. Roman Lopez CEST ID: 819
16:45 > 17:00	<b>Assessment Study on the Socio-Economic and Environmental Impact of Comprehensive On-site Wastewater Management and Reuse in Rural Areas</b> Dr. Monther I. Hind CEST ID: 821

## DAY 2 Thursday 2 September ROOM VR3

### Session 7(V) Energy technologies and sustainability

Chairs: Dr. Vincenzo Senatore, Prof. Barbara Ruffino

09:30 > 09:45	<b>Application of cutting-edge environmental technologies for the development of resilient and sustainable cities</b> Prof. Tiziano Zarra, Prof. Vincenzo Naddeo, Prof. Vincenzo Belgiorno, Dr. Antonio Buonerba, Dr. Giuseppina Oliva, Mr. Domenico Giaquinto, Dr. Vincenzo Senatore CEST ID: 592
09:45 > 10:00	<b>Technological solutions for giving a new life to power plants of alternative energy: social, economic and environmental assessment of end of life scenarios</b> Prof. Antonio Nesticò, Dr. Gabriella Maselli, Mr. Domenico Giaquinto, Mr. Carlo Ambrosino, Prof. Tiziano Zarra, Prof. Vincenzo Naddeo, Prof. Vincenzo Belgiorno CEST ID: 288
10:00 > 10:15	<b>Evidence of Cyprus Energy Strategy, Realities and Options</b> Dr. Antonis A. Zorpas, Mr. MICHAEL TSANGAS CEST ID: 178
10:15 > 10:30	<b>A review on the potential use of flammable gases from sewage systems as a source of energy</b> Dr. Shazia Ali, Prof. Maria Mavroulidou, Dr. Alex Paurine, Mrs. Maryam Ghaffari CEST ID: 656
10:30 > 10:45	<b>Increasing the recovery of automobile shredder residue (ASR) through assimilation to a solid recovered fuel (SRF): the results of a feasibility study</b> Mrs. Mariachiara Zanetti, Mr. Francesco Bonino, Mr. Matteo Guglielmino, Ms. Marta Minardi, Prof. Barbara Ruffino CEST ID: 452
10:45 > 11:00	<b>Gas mixture candidates for SF6 replacement in medium voltage switchgear: Analysis and modeling of the filling episodes</b> Dr. Beñat Pereda-Ayo, Mr. Josu Izagirre, Dr. Jesús Izcará, Prof. Rosa María Alosno, Dr. María Luz Alonso, Prof. J. Ignacio Lombraña, Ms. Ane Espinazo CEST ID: 237

- 11:00 > 11:03 **Decomposition products of 1,3,3,3-tetrafluoropropene and perfluoro-(3-methylbutan-2-one) gas mixtures in medium voltage electrical switchgear. Alternatives to SF6**  
Mr. Josu Izagirre, Dr. Jesús Izcara, Prof. J. Ignacio Lombraña, Ms. Ane Espinazo, Prof. Rosa María Alosno, Dr. María Luz Alonso  
CEST ID: 741

## **Session 13(V) Solid Waste Management**

Chairs: Prof. Konstadinos Abeliotis, Prof. Harald Weigand

- 12:30 > 12:45 **Transferring the Carbonation of Biomass Bottom Ash from Batch to Continuous Operation**  
Prof. Harald Weigand, Prof. Sven Pohl, Dr. Felix Brück, Mr. Kevin Schnabel  
CEST ID: 112
- 12:45 > 13:00 **Citizens' perceptions towards urban solid waste management system: Case Study of the Municipality of Kozani**  
Prof. Dionysis Latinopoulos, Mr. Theodoros Adamidis  
CEST ID: 466
- 13:00 > 13:15 **A comparative assessment of alkali-activated stabilisers including waste materials, for the treatment of swelling-shrinking soils**  
Prof. Maria Mavroulidou, Prof. Michael J Gunn, Mr. Christopher Gray  
CEST ID: 307
- 13:15 > 13:30 **Characterisation of Radioactive Contaminated Waste: Alpha-Induced Air-Fluorescence Detection Under Daylight Conditions**  
Dr. Anita Crompton, Dr. Kelum A.A. Gamage  
CEST ID: 230
- 13:30 > 13:45 **Sustainable management of solid waste by advanced decision-making tool**  
Prof. Vincenzo Naddeo, Prof. Vincenzo Belgiorno, Prof. Tiziano Zarra, Ms. V. Cieri  
CEST ID: 326
- 13:45 > 14:00 **Use of Biochemical Methane Potential (BMP) Assays for predicting biogas production from co-digestion of food waste and compostable bags**  
Prof. Kelly Velonia, Mr. Christos Tsobanidis, Mr. THRASSYVOULOS MANIOS, Mr. Th Lolos, Mr. Ioannis Sampathianakis, Mr. Nikos Papastefanakis, Dr. ANGELIKI MARAGKAKI, Mr. Savvas Kattamis  
CEST ID: 366
- 14:00 > 14:15 **Quality evaluation of composts in the Greek market**  
Mr. THRASSYVOULOS MANIOS, Dr. ANGELIKI MARAGKAKI, Mr. STYLIANOS GYPARAKIS  
CEST ID: 802
- 14:30 > 14:45 **Development of efficient techniques for the removal of brominated flame retardants from polymer blends with composition that simulates WEEE**  
Mr. Dimitris Achilias, Mrs. Lambrini Papadopoulou, Mrs. Maria Anna Charitopoulou  
CEST ID: 356

- 14:45 > 15:00 **Prior electro-mechanical separation to improve metal recovery from ceramic-rich electronic waste using bioleaching**  
 Prof. Sebastien Farnaud, Prof. Derek Renshaw, Mr. Robert Bolton, Dr. John Graves, Mr. Daniel Ray, Dr. Mahsa Baniasadi  
 CEST ID: 236
- 15:00 > 15:15 **Waste Printed Circuit Boards (WPCBs) as a potential source for the recovery of rare earth elements through bioleaching.**  
 Prof. Hemda Garellick, Dr. Leonardo Pantoja Muñoz, Ms. Alejandra Gonzalez Baez, Prof. Diane Purchase  
 CEST ID: 342
- 15:15 > 15:30 **Identification and Assessment of Food Waste Prevention Practices Throughout The Food Supply Chain**  
 Prof. Katia Lasaridi, Mrs. Katerina Korizi, Mrs. Zoi Gaitanarou, Mr. Dimitris Homatidis, Prof. Konstadinos Abeliotis, Mrs. Katerina Synani, Dr. Christina Chroni  
 CEST ID: 838
- 15:30 > 15:33 **Bioelectronics and Green Electronics for a clean Environment**  
 Dr. Elena Manea, Prof. Dan Eduard Mihaiescu, Mr. A. Topor, Prof. Cristian Ravariu  
 CEST ID: 345
- 15:33 > 15:36 **Contribution to low-carbon building industry and improved durability through incorporation of waste into cement composites**  
 Dr. Eva Singovszka, Mr. Robert Figmig, Prof. Adriana Estokova  
 CEST ID: 749
- 15:36 > 15:39 **Municipal solid waste management in island communities: existing experience and implementation possibilities for South Aegean Islands**  
 Mrs. Konstantina G Stylianopoulou, Mr. Petros A Xanthopoulos, Prof. Emilia N Kondili, Prof. Christiana M Papapostolou  
 CEST ID: 56
- 15:39 > 15:42 **Properties of dry hydraulic road binder mixture with additional component of cement bypass dust**  
 Dr. Eva Terpakova, Dr. Julius Strigac, Dr. Jozef Junak, Prof. Nadezda Stevulova  
 CEST ID: 740

## DAY 2 Thursday 2 September ROOM VR4

### Session 19(V) Advanced Oxidation Processes

Chairs: Dr. Nikos Xekoukoulotakis, Dr Popi Karaolia

- 15:00 > 15:15 **Oxidation of carbamazepine by photo-Fenton treatment**  
 Dr. Jose Maria Lomas, Ms. Cristian Ferreiro, Prof. Jose Ignacio Lombraña, Dr. Natalia Villota  
 CEST ID: 17
- 15:15 > 15:30 **Degradation of textile dyes in water by gas-liquid NSP-DBD plasma**  
 Mr. STAURIS MEROPOLIS, Dr. CHRISTOS ANDREAS AGGELOPOULOS  
 CEST ID: 132

- 15:30 > 15:45 **Ultrasound-assisted Fenton-like degradation of methylene blue using electrospun nanofibrous membranes**  
Prof. Tiziano Zarra, Mr. Md. Nahid Pervez, Prof. George K Stylios, Dr. Antonio Buonerba, Prof. ?Shadi Wajih Hasan, Prof. Yingjie Cai, Prof. Yaping Zhao, Mr. Md. Eman Talukder, Prof. Hongchen Song, Prof. Vincenzo Naddeo  
CEST ID: 211
- 15:45 > 16:00 **Comparison of caffeine oxidation by Fenton reagent in combination with UV light and ultrasound waves**  
Prof. Jose Ignacio Lombraña, Ms. Cristian Ferreiro, Dr. Natalia Villota, Dr. Jose Maria Lomas  
CEST ID: 338
- 16:00 > 16:15 **Application of solar photo-Fenton oxidation coupled with granular activated carbon as a viable option for the removal of contaminants of emerging concern in the urban wastewater of India**  
Dr. Popi Karaolia, Mrs. Anna Korelidou, Dr. Despo Fatta-Kassinios  
CEST ID: 642
- 16:15 > 16:45 **Keynote presentation: The Role of Advanced Oxidation Technologies for Addressing Emerging Challenges in Water Treatment**  
Dr. Dionysios (Dion) Dionysiou
- 16:45 > 16:48 **Regeneration of dissolved Fe(II) from Fenton sludge at a microbial fuel cell using a novel biocathode**  
Dr. Yifeng Zhang, Mr. Guan Wang, Dr. Kai Tang, Mrs. Yufeng Jiang, Prof. Henrik Rasmus Andersen  
CEST ID: 750
- 16:48 > 16:51 **Magnetite-decorated catalytic membrane reactor for the continuous-flow CWPO of micropollutants**  
Ms. Julia Nieto-Sandoval, Dr. Macarena Munoz, Prof. Zahara de Pedro, Prof. Jose Antonio Casas, Ms. Neus López-Aragó  
CEST ID: 763
- 16:51 > 16:54 **EVALUATION OF PHOTOCHEMICAL DEGRADATION OF ANTIVIRAL ACYCLOVIR BY UVC/PS & UVC/H<sub>2</sub>O<sub>2</sub> IN SYNTHETIC FRESH AND HYDROLYZED URINE**  
Mrs. C. Drosou, Mrs. K. Tyrovolas, Mr. N. P. Xekoukoulotakis  
CEST ID: 638

## DAY 3 Friday 3 September ROOM A

### Session 20(P) Spatial environmental planning

Chairs: Mr Bernhard Wern

- 09:00 > 09:15 **A qualitative assessment of Environmental Impact Studies in Greece**  
Mr. Loukas Mimikos, Prof. Dimitra G. Vagiona  
CEST ID: 38

- 09:15 > 09:30 **Offshore solar farm siting in the Aegean Sea**  
Prof. Dimitra G. Vagiona, Mr. George Tzekakis, Prof. Eva Loukogeorgaki, Prof. Nikolas Karanikolas  
CEST ID: 80
- 09:30 > 09:45 **Integrating Ecosystem Services (E.S.) in spatial planning: a literature review**  
Prof. Georgia Pozoukidou, Prof. Marilena Papageorgiou, Mrs. Doukeni Kesisoglou  
CEST ID: 384
- 09:45 > 10:00 **CIRC4FooD: An urban food production system inspired by the circular economy**  
Ms. Alexandra Tsatsou, Mr. Christos Ioannides, Mr. Constantinos Noutsopoulos, Mr. Georgios Tsimiklis, Mr. George Chrisomallis, Mr. Zisis Tsiropoulos, Mr. Daniel Mamais, Mr. Simos Malamis  
CEST ID: 508
- 10:00 > 10:15 **Lisbon – European Green Capital 2020: the allotment gardens contribution**  
Prof. Desidério Sares Batista, Prof. Rute Sousa Matos, Prof. Paula Silva Simões  
CEST ID: 410
- 10:15 > 10:27 **Investigating the water, energy, marine land use, food, climate interlinkages in marine environment**  
Prof. Maria P. Papadopoulou, Mrs. Aristea Vlachou  
CEST ID: 8
- 10:27 > 10:30 **Assessing the role of Posidonia banquettes in coastline protection against erosion, through UAV technology and granulometric analysis: Preliminary results from the case of Schinias-Marathon National Park, Attica, Greece.**  
Dr. Dimitrios Vandarakis, Dr. Maria Salomidi, Dr. Vassilis Gerakaris, Dr. Yannis Issaris, Mr. Ioannis Kourlaftis, Mrs. Chara Agaoglou, Dr. Vassilis Kapsimalis, Dr. Ioannis Panagiotopoulos  
CEST ID: 91

### **Plenary Lecture: Prof. Dr. Adrian Covaci**

- 10:30 > 11:00 **Human Biomonitoring of Emerging Contaminants**  
Prof. Dr. Adrian Covaci

### **Plenary Lecture: Prof. Nikolaos Mihalopoulos**

- 11:00 > 11:30 **CLIMPACT: The National Network to study climate change and its impacts in Greece**  
Prof. Nikolaos Mihalopoulos

### **Session 27(P) CLIMPACT: National Network for Climate Change and its impacts**

Chairs: Prof. Anastasios Stamou, Prof. Nikos Michalopoulos, Dr. ?ris Karageorgis

- 12:00 > 12:30 **Keynote presentation: Climate change and infrastructure projects**  
Prof. Anastasios Stamou

12:30 > 12:45	<b>Greenhouse gases in the urban environment of Athens, trends and sources</b> Dr. Aikaterini Bougiatioti, Dr. Konstantinos Dimitriou, Dr. Michel Ramonet, Mr. Frangiskos Pierros, Mr. Panagiotis Michalopoulos, Dr. Eleni Liakakou, Dr. Stavros Solomos, Mr. Pierre-Yves Quehe, Dr. Marc Delmotte, Dr. Evangelos Gerasopoulos, Prof. Maria Kanakidou, Prof. Nikolaos Mihalopoulos CEST ID: 552
12:45 > 13:00	<b>Interannual large-scale variability in the Eastern Mediterranean Sea and interaction with the Aegean Sea</b> Dr. Dimitris Velaoras CEST ID: 748
13:00 > 13:15	<b>Developing a framework for local climate change adaptation plan: The case of Mandra-Attiki, Greece</b> Dr. AKRIVI LEKA, Ms. DESPOINA CHARCHOUSI, Prof. Maria P. Papadopoulou CEST ID: 363
13:15 > 13:30	<b>Estimating Flood Risk at town scale: the case of the 2017 flash flood in Mandra, Greece.</b> Dr. Aristides Bloutsos, Dr. Michalis Diakakis, Mr. George Mitsopoulos, Mr. K. Tsokanis, Prof. Efthymios Lekkas, Prof. E. Baltas, Prof. Anastasios Stamou CEST ID: 850
13:30 > 13:45	<b>Flood modelling using a combined 1D/2D model: the case of the 2017 flash flood in Mandra, Greece</b> Dr. Aristides Bloutsos, Dr. Michalis Diakakis, Ms. Elpida Panagiotatou, Prof. Efthymios Lekkas, Prof. Evangelos Baltas, Prof. Anastasios Stamou, Mr. Georgios Mitsopoulos CEST ID: 612
13:45 > 13:48	<b>Holocene record of palaeoclimatic impact in Epanomi coastal lagoon basin, Thermaikos Gulf, North Greece</b> Dr. Paraskevi Chantzi, Ms. Eleni Papadimitriou, Prof. Eleni Aidona, Prof. Nikos Kantiranis, Ms. Sofia Doani, Prof. Konstantinos Vouvalidis, Prof. Konstantinos Almpanakis CEST ID: 786
13:48 > 13:51	<b>System-Dynamic models for groundwater management in SW Messinia, under different climatic scenarios</b> Dr. Erasmia Kastanidi, Mr. Giorgos Maneas, Dr. Ioannis Panagopoulos, Dr. Peter Viaene, Dr. Jean-Luc De Kok, Dr. Hakan Berg, Dr. Stefano Manzoni, Dr. Dimitris Velaoras, Dr. Aristomenis P. Karageorgis CEST ID: 775
13:51 > 13:54	<b>Methane distribution over Greece as derived from Sentinel-5P TROPOMI data</b> Mrs. IOANNA EVANGELOU, Mr. Nikolaos Gialesakis, Dr. Nikos Daskalakis, Prof. Maria Kanakidou CEST ID: 758
13:54 > 13:57	<b>CO2 and NO2 distributions over Greece as seen by OCO-2 and TROPOMI</b> Mr. Nikolaos Gialesakis, Dr. Nikos Daskalakis, Prof. Maria Kanakidou CEST ID: 777

13:57 > 14:00	<b>Influence of fires on atmospheric composition over Greece as seen by TROPOMI S5P</b>
	Mrs. Eleni Kalogeraki, Dr. Maria Sfakianaki, Mr. Nikolaos Gialesakis, Mr. Marios Chatziparaschos, Dr. Nikos Daskalakis, Prof. Maria Kanakidou
	CEST ID: 781
<b>Session 34(P) Environmental Biotechnology and Bioenergy</b>	
Chairs: Dr. Stergios Vakalis, Dr Demetris-Francis Lekkas	
15:00 > 15:30	<b>Keynote presentation: Potential and limitations of biological biogas upgrading</b>
	Dr. Raúl Munoz
15:30 > 15:45	<b>Condensate originating from household food waste as a substrate for Microbial Fuel Cells</b>
	Mr. T. Kamperidis, Dr. P. K. Pandis, Ms. E. Vlachaki, Dr. A. Tremouli, Prof. Gerasimos Lyberatos
	CEST ID: 240
15:45 > 16:00	<b>High FAME yield Biodiesel from microalgae through nanocatalytic transesterification process.</b>
	Ms. Vaishali Mittal, Dr. Uttam Kumar Ghosh
	CEST ID: 448
16:00 > 16:15	<b>Assessment of Carrot Juicing Pulp Hydrolysate fed MEC for Bio-Hydrogen production</b>
	Mr. Rahul Gautam, Dr. Uttam Kumar Ghosh
	CEST ID: 509
16:15 > 16:30	<b>Biodiesel Properties from Chlorella sorokiniana Bio-oil Cultivated Heterotrophically with Industrial By-Products Industrial</b>
	Mr. Athanasios Kokkalis, Prof. Dorothea Kasiteropoulou, Mrs. Aikaterini Papadopoulou, Dr. Maria N. Metsoviti, Mr. Anastasios Mpesios, Prof. Nikolaos Gougoulias, Prof. Xenofon Spiliotis, Prof. George Papapolymerou
	CEST ID: 637
16:30 > 16:45	<b>The effect of HRT in the successful bioaugmentation of CSTRs working under ammonia toxicity</b>
	Mr. C. Tzenos, Ms. M. Christou, Mr. S. Kalamaras, Prof. T. Kotsopoulos
	CEST ID: 669
16:45 > 17:00	<b>Untargeted screening analysis for mycosporines and mycosporine-like amino-acids in algae by mass spectrometry</b>
	Ms. Maroussia Parailloux, Mr. Simon Godin, Mrs. Susana C.M. Fernandes, Mr. Ryszard Lobinski
	CEST ID: 166
17:00 > 17:15	<b>The effect of catalysts MnO<sub>2</sub>, activated carbon and fly ash on the performance of single-chamber Microbial Fuel Cells</b>
	Dr. A. Tremouli, Mr. T. Kamperidis, Dr. P. K. Pandis, Prof. V. N. Stathopoulos, Prof. I. Ieropoulos, Prof. C. Argirasis, Prof. Gerasimos Lyberatos
	CEST ID: 293

- 17:15 > 17:18 **Red Mud as a Secondary Source of Scarce Metals - Recovery using Red Microalgae**  
Mr. Vít Náhlík, Dr. Mária ?ížková, Dr. Anjali Singh, Dr. Kate?ina Bišová, Prof. Dana Mezricky, Dr. Marian Rucki, Prof. Milada Vítová  
CEST ID: 27
- 17:18 > 17:21 **Hydrogen production in a microbial electrolysis cell: the influence of operational parameters**  
Dr. GEORGIA ANTONOPOULOU, Mr. ILIAS APOSTOLOPOULOS, Dr. G Bampos, Prof. SYMEON BEBELIS, Dr. G LYBERATOS  
CEST ID: 256
- 17:21 > 17:24 **Evaluation of the potential of four microalgal-bacterial symbiotic association on wastewater treatment and lipid accumulation**  
Dr. Kumari Namita Talapatra, Dr. Uttam Kumar Ghosh  
CEST ID: 513
- 17:24 > 17:27 **Evaluation of viable anode material for bioelectricity production in Microbial Fuel Cell**  
Mr. Rahul Gautam, Dr. Jagdeep K Nayak, Dr. Uttam Kumar Ghosh  
CEST ID: 512

## DAY 3 Friday 3 September ROOM B

### Session 21(P) Air pollution

Chairs: Dr. Helena Flocas

- 09:00 > 09:30 **The impact of COVID-19 partial lockdown on air pollution levels – A case study of Cyprus**  
Prof. Antonis A. Zorpas, Ms. Maria Demetriou  
CEST ID: 646
- 09:30 > 09:45 **Sniffing VOCs emitted by books**  
Prof. Agapios Agapiou, Prof. Chrysafis Andreou, Dr. Marinos Stylianou, Mrs. Chloe Barlet  
CEST ID: 505
- 09:45 > 10:00 **A versatile decision-support tool to assess air quality and health effects**  
Prof. Ana Isabel Miranda, Dr. Evangelia Diapouli, Prof. Susana Marta Almeida, Dr. Sandra Rafael, Dr. Diogo Lopes, Dr. Joana Ferreira, Dr. Helder Relvas  
CEST ID: 532
- 10:00 > 10:15 **Relationship of satellite-derived atmospheric CH<sub>4</sub> concentrations with agriculture sector CH<sub>4</sub> emissions in Turkey**  
Ms. Eda Ceylan, Prof. Burcak Kaynak  
CEST ID: 661
- 10:15 > 10:25 **TROPOMI NO<sub>2</sub> and SO<sub>2</sub> Temporal Changes over Large Point Sources and Their Relationship with Electricity Production**  
Prof. Burcak Kaynak, Ms. Ezgi Akyuz, Mr. Ali Osman Ceker, Ms. Sumeyye Sena Deger, Ms. Fulya Cingiroglu  
CEST ID: 770

- 10:25 > 10:28 **The limitation of the methane (CH4) emission in the Upper Silesia CoalBasin as a result of the Polish Mining Group closing program.**  
Mr. Marcin Dreger  
CEST ID: 35
- 10:28 > 10:30 **Performance of a Miniaturized, Lightweight, and Cost-effective Parallel-Plate Differential Mobility Analyzer**  
Prof. George Biskos, Mr. Costi Marinos, Mr. Agapios Agapiou, Mrs. Nikoleta Lekaki, Dr. Anne Maisser  
CEST ID: 739

## **Session 28(P) Energy technologies and sustainability**

Chairs: Dr. Stergios Vakalis, Dr. Guillermo San Miguel

- 12:00 > 12:15 **Fine dust impact by wood energy of a structured oil heating replacement in Luxembourg – Possibilities, pathways and impacts**  
Ms. Yue Zheng, Mr. Florian Noll, Mr. Bernhard Wern  
CEST ID: 64
- 12:15 > 12:30 **A comparative evaluation of urban metabolism methodologies**  
Dr. Antonis A. Zorpas, Ms. IRENE VOUKKALI  
CEST ID: 49
- 12:30 > 12:45 **Simulation and Performance Evaluation of OWC Device Operating in Coastal Regions**  
Prof. Eugen RUSU, Dr. A. Magkouris, Prof. K. Belibassakis  
CEST ID: 745
- 12:45 > 13:00 **Support Structure Suitability for Offshore Wind Farms Development in Greece based on a Sustainable Site-Selection Framework**  
Prof. Dimitra G. Vagiona, Ms. Sofia Spyridonidou  
CEST ID: 25
- 13:00 > 13:15 **The role of biomass and biowaste in the green energy transition of islands and an introduction to the ?gas-to-grid concept**  
Prof. Michalis Fountoulakis, Prof. Stergios Vakalis  
CEST ID: 530
- 13:15 > 13:30 **Assessing the utilization of fuels cells for the valorization of produced excess energy in isolated grids – the green transition of Agios Efstratios**  
Mr. Andreas Dimou, Prof. Stergios Vakalis  
CEST ID: 535
- 13:30 > 13:45 **Energy Renovation of a Conference Center Towards Nearly Zero-Energy Building in Accordance with the Standards of the European Green Deal**  
Dr. ATHANASIOS ANGELIS-DIMAKIS, Dr. GEORGE ARAMPATZIS, Mr. ANTONIS KALOGERAKIS, Mrs. ANASTASIA SOUKOULI  
CEST ID: 785
- 13:45 > 14:00 **Utilization of paraffin wax as phase change material for solar thermal energy storage**  
Prof. Abd Elnaby Elbiomy Kabeel, Mr. Assem Hasan Fleaf, Prof. Saleh Mohammed Shalaby  
CEST ID: 801

## **Session 35(P) Life cycle analysis - LCA**

Chairs: Dr. Guillermo San Miguel

- 15:00 > 15:15 **Life-Cycle-Oriented Framework for Seaport Infrastructure Maintenance and Climate Change Adaptation**  
Prof. Vasiliki Tsoukala, Mrs. V. I. Chalastani, Mrs. C. N. Tsaimou  
CEST ID: 124
- 15:15 > 15:30 **Sustainable water management in industry using Industrial Water Footprint**  
Prof. Helen Grigoropoulou, Mrs. Ioanna Nydrioti  
CEST ID: 139
- 15:30 > 15:45 **Applying Product Social Impact Assessment (PSIA) to services: the case study of a higher education and research institution**  
Ms. D. MEROLA-MORESCHI, Mr. A. D. IBARRA-GRANDE, Dr. G. SAN MIGUEL  
CEST ID: 796
- 15:45 > 16:00 **Quantifying the social benefits of the fair-trade designation of coffee using Social Hotspot Database**  
Dr. E. C. CORREA, Dr. B. DIEZMA, Ms. M. MELGAR-GARCIA, Dr. G. SAN MIGUEL  
CEST ID: 797
- 16:00 > 16:15 **Environmental performance of two WEEE sorting centers operating in Greece**  
Prof. Katia Lasaridi, Mrs. Eleni Moschopoulou, Dr. Christina Chroni, Mr. George Konstantzos, Prof. Konstadinos Abeliotis  
CEST ID: 839
- 16:15 > 16:30 **Life cycle assessment of microalgal membrane photobioreactors**  
Prof. Vincenzo Naddeo, Prof. Vincenzo Belgiorno, Dr. Antonio Buonerba, Dr. Giuseppina Oliva, Mrs. Francesca Consalvo Lazzarini, Prof. Tiziano Zarra, Dr. Vincenzo Senatore  
CEST ID: 591
- 16:30 > 16:45 **Using multiregional environmentally extended input-output assessment to quantify the carbon footprint of peach production**  
Dr. E. C. CORREA, Dr. S. ÁLVAREZ, Dr. B. DIEZMA, Mr. P. NÚÑEZ, Dr. G. SAN MIGUEL, Ms. B. BAÑALES  
CEST ID: 794
- 16:45 > 16:48 **SUITABLE PRACTICES OF DESIGN AND REPAIRMENT FOR REDUCING THE ENVIRONMENTAL IMPACT OF SMARTPHONES**  
Mr. Alberto Perula  
CEST ID: 379
- 16:48 > 16:51 **Environmental LCA and Carbon Footprint of Cauliflower as Produced in Southeast Spain**  
Mr. Francisco Artés-Hernández, Mrs. Encarna Aguayo, Mr. Eloy Hontoria, Mr. Ángel Molina-García, Dr. G. SAN MIGUEL, Ms. Laura Rasines  
CEST ID: 564

16:51 > 16:54 **Environmental life cycle assessment of nectarine as produced in Southeast Spain**

Dr. E. C. CORREA, Dr. B. DIEZMA, Ms. B. BAÑALES, Dr. G. SAN MIGUEL, Mr. P. NÚÑEZ  
CEST ID: 798

## DAY 3 Friday 3 September ROOM C

### Session 22(P) Environmental impact of maritime transport

Chairs: Dr. Eleftheria Klontza

09:00 > 09:10 **An analysis of THETIS-MRV data on CO2 emissions by Ro-Pax ships**

Dr. A.M. Kotrikla, Mr. Ioannis Zouloumis  
CEST ID: 148

09:10 > 09:20 **Shipyards, Shipbreaking industry and the contribution of the Industry 4.0**

Mrs. A. Pournara, Mr. F. Konstantinidis  
CEST ID: 282

09:30 > 09:45 **Development of a tool for calculating ship air emissions**

Prof. Nikolaos P. Ventikos, Mr. Ioannis Kalogeropoulos, Mr. Konstantinos Louzis, Ms. Eirini Asimina Stamatopoulou  
CEST ID: 474

09:30 > 09:45 **Assessing the Environmental Impact of Maritime Transport for the Port of Mytilene with a Focus on the Emission Accounting of the Port of Arrival**

Mr. Alexandros charilaos kelmalis, Dr. Demetris Francis Lekkas, Prof. Stergios Vakalis  
CEST ID: 472

09:45 > 10:00 **National-scale environmental data analysis for shipping and transport: The National Research Infrastructure EN.I.R.I.S.S.T.**

Prof. Amalia Polydoropoulou, Prof. Helen Thanopoulou, Dr. Ioanna Pagoni, Dr. Athena Tsirimpa, Dr. Ioannis Tsouros, Dr. Demetris Francis Lekkas, Dr. Eleftheria Klontza, Prof. Vassilis Zervakis, Prof. Elina Tragou, Prof. Drosos Koutsoubas, Prof. Nikolaos Ventikos, Prof. Dimitrios Lyridis, Mr. Pantelis Anaxagorou, Mr. Nikolaos Manos, Dr. Constantine Parinos, Mrs. Ester Skylaki, Dr. Ioannis Hatzianestis  
CEST ID: 614

10:00 > 10:15 **Calculating Carbon Footprint in ports through a new Standard Tool: case study applications**

Dr. Sahar Azarkamand, Mr. Guillem Ferré, Dr. Rosa Mari Darbra  
CEST ID: 711

10:15 > 10:27 **Port Environmental Management Insights 2020**

Dr. Rosa Mari Darbra, Dr. Chris Wooldridge, Dr. Martí Puig, Mr. Valter Selén  
CEST ID: 52

10:27 > 10:30 **Evaluation of environmental impact assessment factors in maritime industry.**

Mr. MICHAEL BOVIATSIS, Prof. George Vlachos, Mr. G Daniil  
CEST ID: 602

## **Session 29(P) Ecology, environmental change and management**

Chairs: Prof. Panayiotis Dimitrakopoulos, Prof. Natasa Pantera

- 12:00 > 12:15 **Small-scale fisheries in Istrian waters (northern Adriatic): preliminary results on catch analysis and presence of thermophilic species**  
Mr. N. Iveša, Dr. M. Buršić, Mr. M. Gelli, Mr. O. Barić, Mr. R. Filipas, Mr. A. Castellicchio, Dr. I. Kovačić, Dr. E. Pustijanac, Dr. M. Štifanić, Dr. P. Paliaga, Dr. G. Millotti, Dr. A. Gavrilović  
CEST ID: 682
- 12:15 > 12:30 **Factors affecting the populations of Sea Turtles, Caretta caretta: The Case of Greece**  
Ms. Georgia Sarakinou, Dr. Stella APOSTOLAKI  
CEST ID: 764
- 12:30 > 12:45 **Experimental studies of the course of CO<sub>2</sub>/CH<sub>4</sub> exchange sorption on hard coal subjected to confining pressure.**  
Prof. Norbert Skoczylas  
CEST ID: 625
- 12:45 > 13:00 **Effect of confining pressure on sorption parameters and structure of coal in terms of analyzing the possibility of underground CO<sub>2</sub> storage with CH<sub>4</sub> recovery**  
Mr. Anna Pajdak  
CEST ID: 626
- 13:00 > 13:15 **Laboratory studies of coal permeability under conditions corresponding to in situ, in terms of assessing the possibility of underground CO<sub>2</sub> storage with CH<sub>4</sub> recovery**  
Dr. Mateusz Kudasik  
CEST ID: 627
- 13:15 > 13:30 **Linear Bivariate Expressions for Marine Benthic Macrophytes Ecological Status Description**  
Dr. Nikolaos P. Tzouveras  
CEST ID: 159
- 13:30 > 13:45 **Using monk seal faeces as a non-invasive technique to monitor the incidence of microdebris**  
Dr. Gema Hernandez-Milian, Dr. Catherine Tsangaris, Dr. Luigi Bundone, Ms. Aliki Panou, Mr. Anastasios Anestis  
CEST ID: 203
- 13:45 > 13:48 **Challenges and market trends in the offshore aquaculture industry**  
Mr. Panagiotis Evangelou, Prof. Dimitrios Lyridis  
CEST ID: 41
- 13:48 > 13:51 **Effects of nitrogen fertilizer on photosynthetic light energy transfer and use in hybrid fescue under drought stress**  
Dr. Irena Januškaitė, Dr. Austra Dikšaitė, Dr. Gintarė Sujetovienė, Dr. J. Ratė, Dr. Žaltauskaitė, Dr. Giedrė Kaciénė, Dr. Diana Miškelytė, Prof. Romualdas Juknys  
CEST ID: 120

- 13:51 > 13:54 **Triclosan-induced changes in earthworm Eisenia fetida life cycle under elevated temperature**  
Dr. Diana Miškelyt?, Dr. J?rat? Žaltauskait?  
CEST ID: 135
- 13:54 > 13:57 **Forage crops nitrogen use efficiency changes under drought conditions**  
Dr. J?rat? Žaltauskait?, Dr. Austra Dikšaityt?, Dr. Diana Miškelyt?, Dr. Gintar? Sujetovien?, Dr. Irena Januškaitien?, Dr. Giedr? Kacien?  
CEST ID: 187
- 13:57 > 14:00 **Environmental assessment using acoustic complexity indicators**  
Dr. Aggelos Tsaligopoulos, Dr. Chris Economou, Prof. Yiannis G. Matsinos  
CEST ID: 315
- 14:00 > 14:03 **Circular Economy Shadows**  
Dr. Adam Sulich, Dr. Letycja So?oduch-Pelc  
CEST ID: 791
- 14:03 > 14:06 **Bioaccumulation of pharmaceuticals, pesticides and PFASs in mussel's visceral mass and haemolymph**  
Mr. Rodrigo Álvarez-Ruiz, Dr. Julian.Campo@uv.es Julian Campo, Prof. Yolanda Picó  
CEST ID: 416
- 14:06 > 14:09 **The complex of natural enemies of invasive species Tuta absoluta (Meyrick, 1917) (Lepidoptera: Gelechiidae) on greenhouse-grown tomato crops conditions from southern Romania**  
Dr. Maria IAMANDEI, Mr. Ioan ROSCA, Mr. Andrei CHIRILOAIE-PALADE, Mrs. Madalina Radulea  
CEST ID: 494
- 14:09 > 14:12 **Histopathological alteration in gills and liver of Cyprinus Carpio after a short-term exposure to titanium dioxide nanoparticles**  
Mrs. nazish Iftikhar, Prof. imran Hashmi  
CEST ID: 372
- 14:12 > 14:15 **GMOs Detection With Minimal Reaction Volume Real-Time PCR For Environmental Conservation**  
Dr. Dimitrios Argyropoulos, Dr. Charoula Psallida  
CEST ID: 358
- 14:15 > 14:18 **GMO POLICIES FOR ENVIRONMENTAL PROTECTION IN THE ERA OF GENOME EDITING**  
Dr. Dimitrios Argyropoulos, Dr. Charoula Psallida  
CEST ID: 371
- 14:18 > 14:21 **Real-scale Analysis of Riparian Vegetation Deformations and Flow Resistance of Vegetated Streams**  
Dr. Giuseppe Francesco Cesare Lama  
CEST ID: 689
- 14:21 > 14:24 **BRIEF BIOLOGY OF Sudanonautes africanus (CRUSTACEA: BRACHYURA: EUBRACHYURA: POTAMOIDEA: PATAMONAUTIDAE: POTAMONAUTINAE), IN OSSIMO RIVER, NIGER-DELTA, NIGERIA**  
Dr. Osikemekha Anthony Anani, Prof. Olomukoro Ovie John  
CEST ID: 823

## **Session 36(P) Agroforestry, Forest and Agricultural Sustainability**

Chairs: Prof. Anastasia Pantera, Dr. María Rosa Mosquera-Losada

- 15:00 > 15:15 **Litter decomposition across a post-fire chronosequence in Mediterranean pine forests.**  
Mr. Christodoulos I Sazeides, Dr. Anastasia Christopoulou, Dr. Nikolaos Fyllas  
CEST ID: 60
- 15:15 > 15:30 **Cross-border trade: certification schemes for recycling derived organic fertiliser (RDF)**  
Mrs. Anna Bur, Ms. Katharina Laub, Ms. Katja Weiler, Mr. Bernhard Wern  
CEST ID: 63
- 15:30 > 15:45 **Effect of *Castanea sativa* plantation age on soil bacterial communities**  
Dr. Vanessa Álvarez-López, Dr. Nuria Ferreiro-Domínguez, Dr. María Rosa Mosquera-Losada  
CEST ID: 304
- 15:45 > 16:00 **Investigation of the establishment and dynamics of black pine in the fir zone of Tymphristos mountain under climate change**  
Dr. Andreas Papadopoulos, Mrs. Chara Katsaiti, Dr. Anastasia Pantera  
CEST ID: 570
- 16:00 > 16:15 **Reclaimed water reuse in agriculture: a review on potentials and drawbacks**  
Mrs. Pinelopi Papadopoulou, Dr. Evangelos Statiris, Mr. Simos Malamis, Mr. Constantinos Noutsopoulos, Dr. María Rosa Mosquera-Losada  
CEST ID: 851
- 16:15 > 16:30 **Prescribed fire combined with guided herbivory can control shrub development in an Iberian heathland**  
Dr. Vanessa Álvarez-López, Dr. Nuria Ferreiro-Domínguez, Dr. Antonio Rigueiro-Rodríguez, Dr. María Rosa Mosquera-Losada, Mr. Jose Javier Santiago-Freijanes  
CEST ID: 783
- 16:30 > 16:45 **Agroforestry innovation networks (AFINET): Knowledge Transfer and Innovation**  
Dr. Francisco Javier Rodríguez-Rigueiro, Dr. Jose Javier Santiago-Freijanes, Dr. Nuria Ferreiro-Domínguez, Dr. María Rosa Mosquera-Losada  
CEST ID: 784
- 16:45 > 17:00 **Forest Fire Sustainability: Numerical Simulation of a Pine Tree Thermal Response and the Thermal Radiative Phenomenon**  
Prof. Eusébio Zeferino Encarnação da Conceição, Prof. João M. M. Gomes, Dr. M<sup>a</sup> Manuela J. R. Lúcio, Prof. Jorge J. Raposo, Prof. Domingos X. Viegas, Dr. Maria Teresa Viegas  
CEST ID: 686
- 17:00 > 17:15 **Validation of surveillance applications and low-cost drone for mapping and exploitation of forest areas in urban environment**  
Prof. Anastasia Stergiadou, Mr. George Kolkos, Mr. Asterios Tselepis  
CEST ID: 103

- 17:15 > 17:30 **Topographical map of infrastructures in forest areas and site inspections for nature development and protection, produced by using a low-cost Unmanned Aircraft Vehicles - evaluation case**  
Prof. Anastasia Stergiadou, Mr. George Kolkos  
CEST ID: 238

## DAY 3 Friday 3 September ROOM VR1

### Session 23(V) Food waste

Chairs: Prof. Katerina Stamatelatou

- 09:00 > 09:15 **A detailed characterisation of household food waste and the implications of sorting behaviour on potentials for anaerobic digestion and nutrient recovery**  
Mrs. Ina Körner, Mrs. Greta Hausbeck, Mr. Steffen Walk  
CEST ID: 58
- 09:15 > 09:30 **Strategies for the improvement of VFAs recovery in the nanofiltration process within the circular economy framework**  
Prof. ?Mohammad J. Taherzadeh, Prof. Vincenzo Naddeo, Prof. Vincenzo Belgiorno, Prof. Tiziano Zarra, Prof. Yingjie Cai, Prof. ?Shadi Wajih Hasan, Dr. Amir Mahboubi, Ms. Tugba Sapmaz, Ms. Clarisse Uwineza, Mr. Md. Nahid Pervez  
CEST ID: 156
- 09:30 > 09:45 **An overview of pressure-driven membrane technologies for a sustainable recovery of volatile fatty acids (VFAs)**  
Prof. Yingjie Cai, Prof. ?Shadi Wajih Hasan, Dr. Amir Mahboubi, Mr. Md. Nahid Pervez, Prof. Tiziano Zarra, Prof. Vincenzo Naddeo, Prof. ?Mohammad J. Taherzadeh, Prof. Vincenzo Belgiorno  
CEST ID: 160
- 09:45 > 10:00 **Can the seasonal variability affect the BMP of fruit and vegetable waste?**  
Prof. Stefano Papirio, Prof. Giovanni Esposito, Prof. Luigi Frunzo, Prof. Alessandra Cesaro, Dr. Rosetta Lamboglia, Dr. Ester Scotto di Perta  
CEST ID: 264
- 10:00 > 10:15 **Seasonal variation of the biochemical methane potential of fruit and vegetable wastes produced in the Mediterranean area**  
Prof. KATERINA Stamatelatou, Dr. Ioanna A Vasiliadou, Mr. Achilleas Kalogiannis  
CEST ID: 385

### Session 30(V) Hydrology and water resources

Chairs: Dr. Ifigeneia Koutiva

- 12:00 > 12:15 **A system dynamics model to quantify the impacts of restoration measures on the water-energy-food nexus in the Urmia lake Basin, Iran**  
Prof. Pieter van der Zaag, Dr. Janez Susnik, Dr. Poolad Karimi, Dr. Sara Masia, Ms. Elham Bakhshianlamouki  
CEST ID: 6

- 12:15 > 12:30 **Perspectives, challenges and directions for future research into the water-energy-food (WEF) nexus**  
 Dr. Chad Staddon, Dr. Janez Susnik  
 CEST ID: 7
- 12:30 > 12:45 **Effect of the dependence structure and time irreversibility of streamflow in flood inundation mapping with focus on the long-term persistence behaviour**  
 Prof. Demetris Koutsoyiannis, Prof. Panos Papanicolaou, Dr. Theano Iliopoulou, Dr. Panayiotis Dimitriadis  
 CEST ID: 128
- 12:45 > 13:00 **Preliminary hydro-geochemistry characterization of the complex geological framework of the Coreca area (Calabria, South Italy).**  
 Dr. Carmine Apollaro, Dr. Giovanni Vespasiano  
 CEST ID: 180
- 13:00 > 13:15 **Urban water bodies and recreational opportunities in Finland**  
 Mrs. Anne Ojala, Mr. Petri Nummi, Mrs. Somayeh Alikhani  
 CEST ID: 94
- 13:15 > 13:30 **Hydrological analysis and hydraulic simulation for Sperchios River Basin**  
 Prof. Evangelos Baltas, Mrs. Aimilia-Panagiota Theochari, Mr. Filinos Raassis  
 CEST ID: 92
- 13:30 > 13:45 **Introducing UWAB 2.0. and exploring next steps for agent based modelling in domestic water demand.**  
 Prof. Christos Makropoulos, Dr. Konstantinos Eftaxias, Dr. Ifigeneia Koutiva  
 CEST ID: 115
- 13:45 > 14:00 **Energy recovery from urea in decentralised wastewater streams**  
 Dr. Laura Torrente-Murciano, Dr. Víctor Monsalvo, Dr. Frank Rogalla, Dr. Patricia Zamora, Mr. Ruben Asiain-Mira  
 CEST ID: 747

## Session 37(V) Hydrology and water resources

Chairs: Dr. Maria Tassi

- 15:00 > 15:15 **Risk Evaluation of Community-Based Water Systems from Nonpoint-Source Pollution in Eastern Visayas, Philippines**  
 Prof. WENCESLAO CESAR PERANTE, Prof. FELISA EDIZA GOMBA  
 CEST ID: 231
- 15:15 > 15:30 **Enhancing citizen engagement in water resources management**  
 Dr. Carolina Machado Rodrigues, Mr. Carlos Ribeiro, Prof. Isabel Loureiro, Mr. Ricardo Martins, Mrs. Susana Falcão, Mr. Nuno Silva, Mrs. Ana Pinheira  
 CEST ID: 245
- 15:30 > 15:45 **A Water-Based Approach for Addressing RES Integration Challenges in Insular Energy Systems**  
 Prof. Anastasios Stamou, Prof. J. Kaldellis, Dr. D. Zafirakis, Prof. Christos Makropoulos, Mr. G. Tzanes  
 CEST ID: 662

15:45 > 16:00	<b>Intercomparison of satellite and ground-based precipitation in the area of Cyprus</b> Prof. Athanasios Loukas, Prof. Diofantos G. Hadjimitsis, Dr. Silas Michaelides, Dr. Johannes Bühl, Ms. Eleni Loulli CEST ID: 202
16:00 > 16:15	<b>The water tariff structure in the new Convergence Regulatory Scheme</b> Prof. Gianluigi De Mare, Dr. Luigi Dolores, Dr. Maria Macchiaroli CEST ID: 510
16:15 > 16:30	<b>Chemical And Isotopic Characterization Of The Thermal Fluids In The South-western Margin of the Loutros-Feres-Soufli Tertiary Basin in Northern Greece. Case Study: Geothermal Area of Aristino</b> Mr. George Pagonis, Dr. Elissavet Dotsika, Mr. Petros Karalis, Dr. Maria Tassi, Dr. Evangelos Spyridonos, Dr. Paschalidis Dalampakis CEST ID: 604
16:30 > 16:45	<b>Chemical And Isotopic Characterization Of The Thermal Fluids Emerging From Nestos River Delta Basin in North Greece</b> Dr. Elissavet Dotsika, Mr. Petros Karalis, Mr. George Pagonis, Dr. Georgios Diamantopoulos, Dr. Evangelos Spyridonos, Dr. Paschalidis Dalampakis, Dr. Maria Tassi CEST ID: 605
16:45 > 17:00	<b>Towards a sustainable water resources management in post-lignite era: the case of Western Macedonia, Greece</b> Prof. Efthimios Tagaris, Prof. Rafaella-Eleni Sotiropoulou, Mr. Apostolos Tranoulidis, Dr. Polytimi Farmaki CEST ID: 303

## DAY 3 Friday 3 September ROOM VR2

### Session 24(V) Water and wastewater treatment and reuse

Chairs: Dr. Musthafa Odayooth Mavukkandy, Dr Konstantinos Plakas

09:00 > 09:15	<b>Enhanced-Electrocoagulation For Organic Matter Removal From Surface Drinking Water Sources: Operational Parameters And Energy Consumption</b> Mr. H. Daraei, Mr. P. D. Intwala, Dr. J. Awad, Dr. E. Bertone, Prof. C. W.K. Chow, Prof. J. Duan, Prof. R. A. Stewart, Prof. J. V. Leuuwen CEST ID: 443
09:15 > 09:30	<b>Continuous Flocs Image Analyser (C-FIA) For Flocs Dynamics Tracking During Conventional Water Treatment</b> Mr. H. Daraei, Dr. E. Bertone, Mr. Mahmoud M. Khedher, Prof. C. W.K. Chow, Dr. J. Awad, Mr. B. Akyol, Prof. J. Duan, Prof. J. V. Leuuwen, Prof. R. A. Stewart, Mr. P. D. Intwala CEST ID: 444

09:30 > 09:45	<b>Presence and removal of Organic Micropollutants in 8 different Wastewater Treatment Plants and Risk Assessment of treated effluent</b>
	Dr. C. Di Marcantonio, Prof. A. Chiavola, Dr. L. Meccoli, Dr. S. Leoni, Dr. T. Calchetti, Dr. V. Gioia, Dr. M. Mancini, Dr. A. Frugis, Dr. G. Cecchini, Dr. C. Ceci, Dr. M. Spizzirri, Prof. M.R. Boni
	CEST ID: 459
09:45 > 10:00	<b>Monitoring the algae biomass growth developed on hollow fiber membrane bioreactor</b>
	Mr. Andres Felipe Novoa, Dr. Fortunato Luca
	CEST ID: 664
10:00 > 10:15	<b>Electro-bioremediation of nitrate contaminated saline groundwater</b>
	Mrs. G. Puggioni, Prof. A. Carucci, Mrs. E. Dessì, Dr. N. Pous, Prof. S. Puig, Mrs. V. Unali, Dr. S. Milia
	CEST ID: 481
10:15 > 10:18	<b>Letrozole and tamoxifen in municipal wastewater and their photodegradation in ultraviolet (UV) treatment</b>
	Mrs. Olga-Sofia Alitalo, Mrs. Anna-Lea Rantalainen, Mr. Jukka Pellinen
	CEST ID: 681
10:18 > 10:21	<b>Evaluation of real bilge water toxic effects on methanogenic activity</b>
	Dr. G Gatidou, Mr. C G Samanides, Prof. Ioannis Vyrides
	CEST ID: 531
10:21 > 10:24	<b>Photocatalytic degradation of magenta effluent from the printing industry with composite catalyst</b>
	Dr. Djurdja Kerkez, Dr. Milena Be?eli?-Tomin, Dr. Vesna Gvoi?, Ms. Aleksandra Kuli? Mandi?, Dr. Anita Leovac Ma?erak, Dr. Dragana Tomaševi? Pilipovi?, Dr. Djurdja Pucar Milidrag
	CEST ID: 776
10:24 > 10:27	<b>APOC technology as an eco-innovative decentralized sanitation system for wastewater treatment and reuse facilities in the rural locality of Bent Saidane-NE Tunisia</b>
	Dr. Safa Chaabane, Mr. Anis Ghattassi, Ms. Khitem Mensi, Mr. Fadhel M'hiri, Dr. Konstantinos V Plakas
	CEST ID: 650

## **Session 31(V) Environmental Health**

Chairs: Dr. Olga-Ioanna Kalantzi

12:00 > 12:15	<b>Evaluation of the human exposure to a broad spectrum of organic chemicals and the potential use of sewage sludge to prioritize hazardous substances</b>
	Mr. Rubén Gil-Solsona, Dr. Maria-Christina Nika, Mr. Nikiforos Alygizakis, Mr. Mariona Bustamante, Mr. Cristina M Villanueva, Mr. Maria Foraster, Mr. Maria Dolores Gómez-Roig, Mr. Elisa Llurba-Olive, Mr. Jordi Sunyer, Mr. Payam Dadvand, Mr. Nikolaos S. Thomaidis, Mr. Pablo Gago-Ferrero
	CEST ID: 201

12:15 > 12:30	<b>Are emerging contaminants affecting drinking water microbial biofilms?</b> Dr. Inês Bezerra Gomes, Mrs. Isabel Pinto, Mrs. Vitória Arruda, Dr. Lúcia Chaves Simões, Dr. Manuel Simões CEST ID: 275
12:30 > 12:45	<b>QSight-based method for detection and quantification of polar contaminants in drinking water</b> Dr. Derek Mattern, Dr. Edler Stefan, Mr. Thomas Becker, Dr. Ignazio Garaguso CEST ID: 653
12:45 > 13:00	<b>Investigation of the relationship between Hg speciation in soil and human health and ecological risk assessment</b> Mrs. G. SOUMPASAKOU, Prof. I. DAMIKOUKA, Mrs. K. ANAGNOSTOPOULOU, Prof. O. CAVOURA CEST ID: 678
13:00 > 13:15	<b>Indoor Built Environment and Human Comfort in Buildings with Complex Design</b> Prof. Eusébio Zeferino Encarnação da Conceição, Prof. João M. M. Gomes, Dr. André B Ramos, Prof. Hazim B. Awbi CEST ID: 687
13:15 > 13:30	<b>Acute toxicity of polystyrene microplastics and cobalt assessed individually or in combination on “Amphibalanus amphitrite”</b> Ms. RABIA NOUSHEEN, Dr. Daniel Rittschof, Dr. Imran Hashmi CEST ID: 526

## Session 38(V) Gas emissions control and utilization

Chairs: Dr. Zhien Zhang, Dr. Zacharias Frontistis

15:00 > 15:15	<b>Green sonochemical route for the synthesis of MOFs for the electrochemical reduction of CO<sub>2</sub></b> Mr. CHRISTOS VAITSIS, Mrs. EIRINI KANELLOU, Dr. P. K. Pandis, Dr. GEORGIA SOURKOUNI, Dr. Antonis A. Zorpas, Prof. C. Argirasis CEST ID: 348
15:15 > 15:30	<b>Life cycle assessment of various combustion-based electricity generation technologies with carbon capture and storage: A review</b> Mr. Yan Wang, Prof. Zhen Pan, Mr. Rui Li, Dr. Zhien Zhang CEST ID: 644
15:30 > 15:45	<b>CO<sub>2</sub> absorption into 4-diethylamino-2-butanol solution in a membrane contactor under wetting or non-wetting conditions</b> Mrs. Linlin Li, Prof. Zhen Pan, Mr. Francisco M. Baena-Moreno, Mr. Tohid N. Borhani, Dr. Zhien Zhang CEST ID: 697
15:45 > 16:00	<b>A comparative analysis upon the utilization of exhaust gas cleaning systems, LNG fuels or conventional fuels as the most viable options to comply with the new IMO Low Sulfur Cap Regulations</b> Mr. MICHAEL BOVIATSIS CEST ID: 854

- 16:00 > 16:15 **Low temperature conversion of methanol to higher hydrocarbons and hydrogen using a non-thermal plasma**  
Mr. Usman Hassan Dahiru, Dr. Kui Zhang, Prof. Adam P Harvey  
CEST ID: 746
- 16:15 > 16:18 **A New Method for Emission Control System Malfunction Detection During the Periodic Technical Inspection**  
Mr. Marko Rešetar, Dr. Goran Pejić, Mr. Petar Ilinčić, Mr. Zoran Lulić  
CEST ID: 421
- 16:18 > 16:21 **CO<sub>2</sub> Utilization for Preparation of Carbon Nanostructures**  
Dr. Tatiana Giannakopoulou, Ms. Niki Plakantonaki, Mr. Michail Vagenas, Dr. Ilias Papailias, Dr. Nikos Boukos, Dr. Nadia Todorova, Dr. Christos Trapalis  
CEST ID: 765

## DAY 3 Friday 3 September ROOM VR3

### Session 25(V) Advanced Oxidation Processes

Chairs: Prof Stavros Poulopoulos

- 09:00 > 09:15 **Removal of amoxicillin from processing wastewater by ozonation and UV-aided ozonation: a kinetic and economic comparative study**  
Ms. Mariana Cardoso Barros Ribeiro, Dr. Bruno Ramos, Prof. Andre Luis de Castro Peixoto  
CEST ID: 636
- 09:15 > 09:30 **Degradation of cytostatic drugs in water by ozonation**  
Dr. Alicia L. Garcia-Costa, Mrs. Teresa I.A. Gouveia, Prof. M. Fernando R. Pereira, Prof. Adrián M.T. Silva, Prof. Arminda Alves, Prof. Luis M. Madeira, Dr. Mónica S.F Santos  
CEST ID: 389
- 09:30 > 09:45 **Influence of the addition of M<sup>2+</sup> (M: Co, Cu, Zn) on the properties and activity of W-TiO<sub>2</sub> and Mo-TiO<sub>2</sub> photocatalysts for water remediation**  
Mrs. Saule Mergenbayeva, Prof. Stavros Poulopoulos, Mrs. Eleni Grilla, Dr. John Vakros, Prof. Dionissios Mantzavinos  
CEST ID: 426
- 09:45 > 10:00 **Valorization of olive stone by-product as Fenton-like catalysts for olive mill wastewater treatment**  
Mr. B M Esteves, Mr. S. Morales-Torres, Mr. F. J. Maldonado-Hódar, Prof. Luis M. Madeira  
CEST ID: 475
- 10:00 > 10:13 **On the Fenton oxidation of polystyrene microplastics**  
Dr. Macarena Muñoz, Mr. David Ortiz, Ms. Julia Nieto-Sandoval, Dr. Cristina Romera-Castillo, Prof. Zahara de Pedro, Prof. Jose Antonio Casas  
CEST ID: 759
- 10:13 > 10:25 **Ozonation against a diverse suite of antibiotic resistance determinants in wastewater**  
Mr. Iakovos Iakovides, Dr. Irene Michael-Kordatou, Dr. Popi Karaolia, Dr. Kyriakos Manoli, Prof. Celia Manaia, Dr. Despo Fatta-Kassinis  
CEST ID: 212

- 10:25 > 10:28 **Caffeine oxidation by sono-Fenton treatment**  
Dr. Jose Maria Lomas, Dr. Natalia Villota, Mr. Cristian Ferreiro, Dr. Luis Miguel Camarero, Prof. J. Ignacio Lombraña  
CEST ID: 15
- 10:28 > 10:30 **Toxicity study of Norfloxacin degradation by advanced oxidative process**  
Ms. Bruna Costa, Ms. Sabrina Grando Cordeiro, Mr. Ytan Andreine Schweizer, Ms. Ani Caroline Weber, Mr. Peterson Haas, Mrs. Letícia Angeli de Oliveira, Mr. Eduardo Miranda Ethur, Mrs. Lucélia Hoehne  
CEST ID: 352
- Session 32(V) Spatial environmental planning**  
Chairs: Prof. Georgia Pozoukidou, Dr Dimitra Vagiona
- 12:00 > 12:15 **Creating the base for MSP; depicting the environmental status of Inner Ionian-Korinthiakos Gulf**  
Ms. THEODORA PARAMANA, Dr. AIKATERINI KARDITSA, Ms. NIKI MILATOU, Mr. STELIOS PETRAKIS, Prof. PERSEFONI MEGALOFONOU, Prof. SERAFIM POULOS, Prof. MANOS DASSENAKIS  
CEST ID: 218
- 12:15 > 12:30 **Rapidly growing cities and critical environmental issues: An evaluation model to support policy-making**  
Prof. Antonio Nesticò, Mrs. Piera Somma, Dr. Gabriella Maselli, Prof. Vincenzo Naddeo  
CEST ID: 538
- 12:30 > 12:45 **Towards a Holistic Approach for Small Island Tourism Analysis: The case of Camiguin, Philippines**  
Dr. Edgar, Jr Medrano Reyes  
CEST ID: 170
- 12:45 > 13:00 **The environmental benefits of small-scale timber frame dwellings for utilization of forested and rural remote areas in Greece**  
Dr. Thomas Psilovikos, Prof. Anastasia Stergiadou, Mr. Dimitrios Moutsopoulos  
CEST ID: 517
- 13:00 > 13:15 **A topographical approach to survey environmental adaptation assessment on a mountain trail as a pathway to local prosperity**  
Mr. Dimitrios Moutsopoulos, Prof. Anastasia Stergiadou, Dr. Thomas Psilovikos  
CEST ID: 528
- 13:15 > 13:30 **Adaptation to Climate Change and Spatial Planning: The Case-Study of the Region of South Aegean**  
Dr. Miltiadis Lazoglou, Prof. Konstantinos Serraos  
CEST ID: 774
- 13:30 > 13:45 **Do pro-environmental attitudes affect the adoption of flying cars in touristic regions?**  
Mr. Annitsa Koumoutsidi, Dr. Ioanna Pagoni, Prof. Amalia Polydoropoulou  
CEST ID: 587
- 13:45 > 14:00 **Considering LSI in MSP in Greece: updates and challenges**  
Prof. Marilena Papageorgiou, Prof. Stella Kyvelou  
CEST ID: 676

- 14:00 > 14:03 **Environmental Sustainability Indicators applied to Tourism Sector in Sicily**  
Prof. Agata Matarazzo, Prof. Antonio Zerbo, Dr. Carla Serrano  
CEST ID: 328

## **Session 39(V) Disaster risk reduction and management**

Chairs: Prof. Maria Mavroulidou

- 15:00 > 15:15 **An Agent-Based Modelling approach to assess risk in Cyber-Physical Systems (CPS).**  
Dr. Ifigeneia Koutiva, Mr. George Moraitis, Prof. Christos Makropoulos  
CEST ID: 194
- 15:15 > 15:30 **Guimarães 2030: A new governance ecosystem**  
Mrs. Isabel Loureiro, Mr. Carlos Ribeiro, Mrs. Dalila Sepúlveda  
CEST ID: 267
- 15:30 > 15:45 **A comparative study of alkali activated slag cement concretes with carbonate and silicate activators.**  
Ms. Intisar Sanam, Prof. Maria Mavroulidou  
CEST ID: 301
- 15:45 > 16:00 **Coastal Inundation Integrated Modelling**  
Dr. Michalis K. Chondros, Dr. Anastasios S. Metallinos, Mr. Andreas G. Papadimitriou, Ms. MARIA KALPYRI, Prof. CONSTANTINE MEMOS, Prof. Vasiliki Tsoukala  
CEST ID: 751
- 16:00 > 16:15 **Optimal Productive Structure for Sustainable Development: Environmental Extended Input-Output Analysis**  
Dr. Maria Socrates Markaki, Prof. Stelios Papadakis  
CEST ID: 42
- 16:15 > 16:30 **The Implementation of Risk Management processes as a contributing factor to the minimization of shipping disasters through the study of previous shipping accidents**  
Mr. MICHAEL BOVIATSIS, Prof. George Vlachos  
CEST ID: 541
- 16:30 > 16:45 **Daily Forest Fire Prediction modeling and Forest Fire Information System (FFIS)**  
Mr. Alexis Apostolakis, Ms. Stella Girtsou, Dr. Charalampos Kontoes  
CEST ID: 773
- 16:45 > 17:00 **The development of a Forest Canopy Density (FCD) model in Akamas National Forest Park in Cyprus, using Landsat-8 and Sentinel-2 satellite data.**  
Ms. Maria Prodromou, Dr. Christos Danezis, Dr. Ioannis Gitas, Prof. Diofantos G. Hadjimitsis  
CEST ID: 224

- 17:00 > 17:03 **Assessing the risks of climate change for cultural heritage – The CLIMASCAPE project**  
Prof. Constantinos Cartalis, Mr. Anastasios Polydoros, Mrs. Thaleia Mavrakou, Dr. Konstantinos Philippopoulos, Dr. Evangelos Asprogerakas, Dr. Panayotis Pantazis, Dr. Anna Samarina, Dr. Sofia Zoumpaki, Dr. Michalis Karambinis  
CEST ID: 767

## DAY 3 Friday 3 September ROOM VR4

### Session 33(V) Innovative Environmental solutions

Chairs: Dr. Christiana Mystrioti

- 12:00 > 12:15 **Advanced technology for biomethane production from organic fraction of municipal solid waste within circular economy framework**  
Prof. Vincenzo Naddeo, Prof. Vincenzo Belgiorno, Dr. Giuseppina Oliva, Prof. Tiziano Zarra, Ms. V. Cieri  
CEST ID: 325
- 12:15 > 12:30 **A PRELIMINARY INVESTIGATION ON THE ACCEPTANCE OF THE USE OF URINE BASED FERTILIZERS: A COMPERATIVE SURVEY WITH FARMERS AND ENVIRONMENTAL ENGINEERS**  
Prof. B. BELER-BAYKAL, Ms. Y. AKDAG, Ms. E. OZKAN  
CEST ID: 462
- 12:30 > 12:45 **Planar Mixing Tool for Enhanced Performance of Covered Anaerobic Pond Systems**  
Dr. Felix Brück, Mr. Hermann Velten, Prof. Ulf Theilen, Mr. Carsten Linnenberg, Prof. Harald Weigand, Prof. Dirk Meyer, Mr. Marcel Pingsmann  
CEST ID: 502
- 12:45 > 13:00 **The Effects of Incorporating Biosolids on Soil Quality After Cotton Crop Management**  
Dr. Georgios Salachas, Dr. Eleftherios Evangelou, Mrs. Effrosyni Makrygianni, Prof. Evangelos Giannakopoulos  
CEST ID: 516
- 13:00 > 13:15 **Synthesis and characterization of nanomagnetite for environmental applications**  
Prof. Anthimos Xenidis, Prof. Nymphodora Papassiopi, Dr. Christiana Mystrioti  
CEST ID: 146
- 13:15 > 13:30 **Energy Communities: A significant factor to alleviate energy poverty.**  
Mr. Spyros Golfinopoulos, Mr. Georgios Lamprousis  
CEST ID: 446
- 13:30 > 13:45 **The Quality Properties of Tire Tread With Adding Filler of a Sunflower Oil and Pinecone Powder**  
Mr. A. Alkan, Dr. A. Akpinar Borazan  
CEST ID: 344

- 13:45 > 13:48 **Application of non-thermal Plasma as an Alternative for Purification of Bacterial Cellulose Membranes**  
Dr. Karina Cesca, Ms. Julia Liz Silva, Ms. Ritanara Tayane Bianchet, Prof. Anelise Leal Vieira Cubas  
CEST ID: 167
- 13:48 > 13:51 **Use of bacterial cellulose produced by Kombucha drink for the manufacture of biotextiles for the benefit of sustainability**  
Prof. Anelise Leal Vieira Cubas, Dr. Karina Cesca, Prof. Ana Regina Aguiar Dutra, Ms. Ana Paula Provin  
CEST ID: 169
- 13:51 > 13:54 **Bioeconomy value indicators in Sicily**  
Prof. Carmela Schillaci, Prof. Agata Matarazzo  
CEST ID: 753

## **Session 40(V) Water and wastewater treatment and reuse**

Chairs: Prof. Vincenzo Naddeo, Dr. Laura Borea

- 15:00 > 15:30 **Keynote presentation: Encapsulated microorganisms for enhanced wastewater treatment**  
Prof. Paige Novak
- 15:30 > 15:45 **Pilot-scale membrane bioreactor for wastewater treatment using innovative encapsulated self-forming dynamic membrane**  
Prof. Vincenzo Naddeo, Prof. Vincenzo Belgiorno, Prof. ?Shadi Wajih Hasan, Dr. L. Borea, Mr. F. Castrogiovanni  
CEST ID: 278
- 15:45 > 16:00 **Wastewater Treatment and Membrane Fouling Control Using an Algae-Activated Sludge Self-Forming Dynamic Membrane Bioreactor (AAS-SFDMBR)**  
Prof. ?Shadi Wajih Hasan, Prof. Vincenzo Belgiorno, Prof. Tiziano Zarra, Dr. Antonio Buonerba, Dr. L. Borea, Dr. Vincenzo Senatore, Mr. F. Castrogiovanni, Ms. M. Morales-Corpuz, Dr. F. Ballesteros, Prof. Vincenzo Naddeo, Mr. P. Napodano  
CEST ID: 283
- 16:00 > 16:15 **Seafood wastes as an attractive biosorbent: Chitin-based shrimp shells**  
Dr. Tolga Bahad?r, Dr. O?uzhan Gök, Dr. ?smail ?im?ek, Dr. Hakan Çelebi, Dr. Gülden Gök  
CEST ID: 415
- 16:15 > 16:30 **Alternative wastewater treatment process with algae (AlgA) – general mathematical model and dynamic simulation**  
Prof. Ulf Theilen, Mr. Alexander Behr, Mrs. Tatjana Lorenz  
CEST ID: 431
- 16:30 > 16:45 **Irrigation with reclaimed water containing Diclofenac and Lamotrigine induces stress reactions in Lettuce (*Lactuca sativa*)**  
Mrs. Rayana Manasfy, Prof. Peter Schröder, Dr. Soumitra Paul Chowdhury, Mr. Nicola Montemurro, Dr. Sandra Perez, Mrs. Yvonne Bigott  
CEST ID: 19

- 16:45 > 16:48 **Functionalized iron oxide nanocomposite ultrafiltration membranes for water-in-oil emulsion separation**  
Prof. ?Shadi Wajih Hasan, Dr. Fawzi Banat, Prof. Vincenzo Naddeo, Mr. Mariam Ouda, Dr. Vijay S Wadi  
CEST ID: 186
- 16:48 > 16:51 **Aqueous wastewater treatment with aluminum oxide, silica, and alginate**  
Prof. Thies Thiemann, Mrs. Anifat Adenike Bankole  
CEST ID: 799
- 16:51 > 16:54 **Kinetics study of the MO adsorption and photocatalytic degradation using an effectively engineered HF photocatalyst**  
Dr. Georgios Romanos, Dr. Sergios Papageorgiou, Dr. Fotios Katsaros, Mr. George Theodorakopoulos  
CEST ID: 244
- 16:54 > 16:57 **Photocatalytic elimination of water pollutants using innovative titania thin film heterostructures embedding carbon quantum dots**  
Prof. Konstantinos Kordatos, Mr. Islam Ibrahim, Mrs. Adamantia Zourou, Mrs. Penelope Falara  
CEST ID: 255
- 16:57 > 17:00 **Application of catalytic hydrodehalogenation for the removal of brominated flame retardants**  
Prof. Jose Antonio Casas, Prof. Zahara de Pedro, Dr. Macarena Munoz, Mr. Raúl Benito del Olmo, Ms. Julia Nieto-Sandoval  
CEST ID: 762
- 17:00 > 17:03 **Synthesis of Fe<sub>3</sub>O<sub>4</sub>/Carbon Quantum Dots Hybrid for Efficient Removal of Congo Red Dye from Aqueous Solution**  
Prof. Konstantinos Kordatos, Dr. Afrodite Ntziouni, Mrs. Penelope Falara, Mrs. Vasiliki Axarli, Mrs. Adamantia Zourou  
CEST ID: 251
- 17:03 > 17:06 **Removal of phosphate ions and Pb (II) from synthetic water matrices using “green” synthesized zero valent iron**  
Dr. Milena Be?eli?-Tomin, Dr. Vesna Gvoi?, Dr. Nataša Slijep?evi?, Dr. Anita Leovac Ma?erak, Dr. Djurdja Kerkez, Ms. Jovana Joki? Govedarica, Dr. Dragana Tomaševi? Pilipovi?  
CEST ID: 778

## DAY 3 Friday 3 September ROOM VR5

### Session 26(V) Workshop: Contaminated soil management in Greece: learning from EU and international experience

Chairs: Dr. Iraklis Panagiotakis , Prof. Dimitris Dermatas

09:30 > 18:30 **Workshop: Contaminated soil management in Greece: learning from EU and international experience**

Dr. Iraklis Panagiotakis, Prof. Dimitris Dermatas, Mr. Johan De Fraye, Mr. Dietmar Müller-Grabherr, Mr. Bavo Peeters, Mr. Johan Ceenaeme, Mrs. Margot de Cleen, Mr. Marco Falconi, Dr. Rick Parkman, Mr. Sami Kaabouch, Mr. Horst Herzog, Mr. Pol Tock, Prof. Ravi Naidu, Dr. Frank Swartjes, Dr. Ing. Henri Halen, Mr. Wouter Gevaerts, Dr. Paul Nathanail, Mr. Carlos Pachon, Mr. Theodoros Toskos

## DAY 4 Saturday 4 September ROOM A

### Plenary Lecture: Dr. Costas Velis

- 09:00 > 09:30 **Plastic pollution global challenge: how to intervene based on evidence**  
Dr. Costas Velis

### Session 41(P) Environmental Health

Chairs: Prof. Panagiotis Nastos, Dr Angelina Metaxatos

- 09:30 > 09:45 **Particulate Matter impacts on public health in a Mediterranean coastal city, Patras, Greece**  
Prof. P. T. Nastos, Prof. K. P. Moustiris, Dr. G. Kosmopoulos, Dr. V. Salamalikis, Prof. A. Kazantzidis  
CEST ID: 205
- 09:45 > 10:00 **Do the weather conditions drive the spread of COVID-19? The Case of Greece.**  
Dr. D. Tounta, Prof. P. T. Nastos, Prof. D. Paraskevis, Dr. A. D. Sarantopoulos  
CEST ID: 213
- 10:00 > 10:15 **Analysis of fungal bioaerosols in Athens: a pilot study.**  
Dr. Angelina D Metaxatos, Dr. Sydonia Manibusan, Prof. Gediminas Mainelis  
CEST ID: 514
- 10:15 > 10:30 **APPLICATION OF THE PALM4U MODEL COUPLED TO WRF/CHEM MODEL TO EVALUATE WIND COMFORT AND AIR POLLUTION IMPACTS FOR URBAN SCENARIOS**  
Prof. ROBERTO SAN NJOSE, Prof. JUAN LUIS PEREZ CAMANYO  
CEST ID: 668
- 10:30 > 10:33 **Assessment of radon concentration in a residential building – a case study**  
Dr. Eva Singovszka, Prof. Adriana Estokova, Dr. M. Vertal  
CEST ID: 43
- 10:33 > 10:36 **Environmental attitudes in times of a pandemic**  
Ms. Dimitra Meniki, Ms. Chrysovalantou Chrysoula Meniki, Ms. Lamprini Papadonta, Dr. Eleni Antonopoulou  
CEST ID: 200

- 10:36 > 10:39 **Increased use of antiseptics due to COVID19: a case study in Greece - anticipated effects on the marine environment**  
Dr. ANASTASIA D NIKOLAOU, Dr. Maria C Vagi, Prof. M. Kostopoulou, Mr. ALEXANDROS-NIKOLAOS KAFES  
CEST ID: 837
- 10:39 > 10:42 **Clean water – Healthy city. Using of WBE for monitoring of the consumption of illicit drugs in the city Prague.**  
Dr. V?ra O?enášková, Ms. E. Bohadlová, Dr. D. Marešová, Mrs. D. Pospíchalová, Ms. N. Cielecká  
CEST ID: 473
- 10:42 > 10:45 **Training Opportunities for Estonian Elite Athletes in the COVID-19 situation**  
Dr. Ülle Parm, Ms. Tuuli Tomingas, Mrs. Anna-Liisa Tamm  
CEST ID: 651

## **Plenary Lecture: Prof. Susan Richardson D.**

- 11:00 > 11:30 **To Regulate or Not to Regulate? What to Do With More Toxic Disinfection By-Products?**  
Susan D. Richardson

## **Session 47(P) Microplastics in the environment**

Chairs: Prof. Papatheodorou Georgios

- 12:00 > 12:15 **Benthic megalitter detection using unmanned surface vehicle (USV) and Automatic Target Detection: A case study in the Port of Thessaloniki, Thermaikos Gulf**  
Prof. G Papatheodorou, Dr. A Kosmopoulos, Dr. E Fakiris, Prof. M Geraga, Mr. X Dimas, Mr. N Maurommatis, Dr. Dimitris Christodoulou, Mrs. Konstantina Kouvara, Mrs. P Xirotagarou  
CEST ID: 599
- 12:15 > 12:30 **Tackling single-use plastic items in the Mediterranean**  
Ms. Hara Xirou, Dr. Chris Sherrington, Ms. Ayesha Bapasola  
CEST ID: 519
- 12:30 > 12:45 **"Plastisphere - the holistic approach and numerical description of microplastics surfaces"**  
Dr. Agnieszka Monika D?browska  
CEST ID: 31
- 12:45 > 13:00 **Citizens' awareness and education for tackling microplastic contamination in freshwater ecosystems**  
Dr. Carolina Machado Rodrigues, Mrs. Andreia Ribeiro, Mr. Nuno Silva, Dr. Ana Luís Patrício Silva, Prof. Carlos Gravato, Mr. Carlos Ribeiro  
CEST ID: 253
- 13:00 > 13:15 **Affordable multi-spectral imaging system for the identification and classification of microplastics from the environment**  
Ms. Srumika Konde, Mr. Vedant Gonnade, Mr. Stefan Brackmann, Dr. Johnny Nguyen, Dr. Lorenz Maximilian Schneider, Mr. Lena Loeschel, Mr. Christian Lott, Dr. Miriam Weber, Prof. Martin Koch  
CEST ID: 188

- 13:15 > 13:18 **Characterization and toxicity assessment of industrial microplastics made of Bakelite**  
Dr. Gabriela Kal?ikova, Mrs. Ula Rozman, Dr. Tina Skalar  
CEST ID: 44
- 13:18 > 13:21 **Extent and distribution of microplastic contamination in the benthic sediment of Turag river in Bangladesh**  
Mrs. Tajkia Syeed Tofa, Mr. Vuban Chowdhury, Mr. Shafkath Nur, Mr. Md. Rwanakul Islam Chowdhury  
CEST ID: 484
- 13:21 > 13:24 **Morphological analysis approach to detect microfiber contamination in *Mytilus galloprovincialis***  
Ms. Michela Volgare, Dr. Serena Santonicola, Dr. Gennaro Gentile, Dr. Maria Emanuela Errico, Dr. Rachele Castaldo, Dr. Roberto Avolio, Dr. Gennaro Raimo, Dr. Maurizio Gaspari, Dr. Giampaolo Colavita, Dr. Raffaella Mercogliano, Dr. Mariacristina Cocco  
CEST ID: 666
- 13:24 > 13:27 **Microplastics in marine biota of North Aegean Sea: Summarizing and comparing preliminary findings**  
Mrs. Dimitra Marmara, Mr. George Vogiatzis, Mr. Charis-Konstantinos Christofidis, Mr. Alexios Stamelos, Prof. Eva Krasakopoulou  
CEST ID: 401

## **Session 53(P) Innovative Environmental Solutions**

Chairs: Mr. Bernhard Wern

- 15:00 > 15:30 **Keynote presentation: Introduction to bio-based and biodegradable plastics**  
Dr. Constance Ißbrücker
- 15:30 > 15:45 **An innovative and eco-friendly approach to recover gold (and copper) from gold fingers of waste printed circuit boards**  
Mrs. Paulo Sousa, Dr. Liliana M Martelo, Prof. Margarida Bastos, Prof. António T Marques, Prof. Helena Soares  
CEST ID: 155
- 15:45 > 16:00 **Advanced Screening Methodologies for the Comprehensive Monitoring of Intentionally & Non-Intentionally Added Substances in Next Generation Food Contact Materials**  
Dr. Chrysoula Kanakaki, Ms. Eleftheria Mermingi, Mr. Nikolaos S. Thomaidis  
CEST ID: 700
- 16:00 > 16:15 **PlomBox - development of a low-cost CMOS device for environmental monitoring**  
Dr. A Aguilar-Arevalo, Mr. E Alba Posse, Dr. M Alvarez, Dr. H Arnaldi, Prof. H Asorey, Dr. X Bertou, Ms. ?. Colque, Dr. A Deisting, Ms. A Dias, Dr. J D'Olivo, Dr. F Favela-Pérez, Dr. Y Gándola, Dr. E Garcés, Dr. J Gasulla, Dr. M Gómez Berisso, Dr. A González Muñoz, Dr. J Guerra-Pulido, Ms. S Gutierrez, Dr. S Jois, Dr. J Lipovetzky, Dr. J. Lovera, Ms. M Lovino, Dr. D Marín-Lámbarri, Dr. L Marpegan, Dr. D Martín, Dr. M Martinez Montero, Mr. S. Mejía Muñoz, Prof. J Monroe, Dr. A Nadra, Dr. S Paling, Dr. R Pregliasco, Dr. G Rumi, Dr. A Rossen, Prof. J Santos, Dr. P Scovell, Dr. M Tallis, Prof. A Teijeiro, Ms. M. Triana, Dr. E Vázquez-Jáuregui  
CEST ID: 164

- 16:15 > 16:30 **To what extent are Bioplastics truly harmless?**  
Ms. Cristina Mastrolia, Mr. Domenico Giaquinto, Prof. Shadi Wajih Hasan, Prof. Tiziano Zarra, Prof. Vincenzo Belgiorno, Prof. Vincenzo Naddeo  
CEST ID: 285
- 16:30 > 16:33 **Research on vegetable farming in vertical hydroponic system**  
Mr. F Ciuta, Mr. A Cristian Tudor, Prof. V Luchian Lagunovschi  
CEST ID: 503
- 16:33 > 16:36 **The biological growth parameters of Fusarium proliferatum fungus**  
Dr. R. ZAHARIA, Dr. C. PETRISOR, Ms. A. AMUZA, Mr. A. GHEORGHE, Mr. V. FATU, Prof. S. CRISTEA, Mr. I. LEVEANU, Mr. S. STEFAN  
CEST ID: 809
- 16:36 > 16:39 **Preliminary study of minerals, tyrosinase and elastase activity in plants from urbans park– green analytical solutions**  
Prof. Marijana Zovko Kon?i?, Prof. Mario Jug, Dr. Rogerta Dalipi, Dr. Emanuele Sangiorgi, Dr. Eva Margui, Dr. Jasna Jablan  
CEST ID: 808
- 16:39 > 16:42 **Conversion of agro-industrial wastes into non-toxic protein-rich food additives by basidial fungi strains isolated from diverse ecosystems of Georgia**  
Prof. Giorgi Kvesitadze, Dr. Nino Tsiklauri, Dr. Rusudan Khvedelidze, Dr. Lali Kutatelandze, Prof. Tinatin Sadunishvili  
CEST ID: 621
- 16:42 > 16:45 **FeBio: R&D of novel 75 kWel AD plant for difficult agricultural residues: horse manure, straw and green waste**  
Mr. Michael Porzig, Mr. Bernhard Wern, Dr. Joachim Pertagnol  
CEST ID: 83

## DAY 4 Saturday 4 September ROOM B

### Session 42(P) Circular economy and industrial symbiosis

Chairs: Dr. Demetris F. Lekkas, Dr Costas Velis

- 09:30 > 09:45 **The Circular Economy Shift for Business Models: Creating value from waste in the Peach Canning industry**  
Prof. Dimitrios Vlachos, Ms. Christina Paraskevopoulou  
CEST ID: 85
- 09:45 > 10:00 **Quantification of feedstocks and outputs for a regional Bioeconomy using the AD Biorefinery concept.**  
Ms. Lauren Blaine, Dr. Robin Curry  
CEST ID: 247
- 10:00 > 10:15 **Shipyards and Ship breaking: Opportunities for utilization of steel under the prism of Circular Economy**  
Mr. V. Sakkas, Mrs. A. Pournara  
CEST ID: 289

- 10:15 > 10:30 **Evaluation of Pressure-Driven Membrane Processes for Nutrients Recovery from Dilute Effluents**  
Dr. Konstantinos V Plakas, Ms. Anthoula Karanasiou, Ms. Charikleia Tsaridou, Prof. Anastasios J Karabelas  
CEST ID: 354
- 10:30 > 10:45 **Implementing Circular Economy in Wineries: The case of Greece**  
Mrs. Maria Seleventi, Mrs. Evangelia Sotiropoulou, Mrs. Aristea Kounani  
CEST ID: 534
- 10:45 > 11:00 **Biobased Lubricants within a Circular Economy Concept: Utilization of Spent Coffee Grounds as an Alternative Sustainable Feedstock**  
Prof. Fanourios Zannikos, Prof. Dimitrios Karonis, Dr. Alexandros Deligiannis, Dr. George S. Dodos  
CEST ID: 545
- 11:00 > 11:03 **The Lombard Dairy Industry in the Perspective of Circular Economy: Degree of Application and Improvement Potentials**  
Dr. D. Pizzichini, Dr. V. Fantin, Mr. E. Mehner, Prof. S. Vergalli, Mr. Mentore Vaccari  
CEST ID: 215
- 11:03 > 11:06 **Comparison the effectiveness of three outranking multicriteria methods as analytical tools for the efficiency assessment of biorefineries/ waste-to-energy technologies**  
Prof. Stergios Vakalis, Dr. Panagiotis Isigonis  
CEST ID: 540

## **Session 48(P) Circular economy and industrial symbiosis**

Chairs: Dr Demetris-Francis Lekkas, Dr Costas Velis

- 12:00 > 12:15 **Bioleaching of valuable elements from red mud using autochthonous biomass**  
Prof. A. Carucci, Dr. S. Milia, Dr. S. Cara, Prof. G. Cappai, Ms. A. Cozzolino  
CEST ID: 308
- 12:15 > 12:30 **Carbon Capture Utilization Potential in Malaysia**  
Prof. Suzana Yusup, Mr. Chieh Ying Sim, Mr. Zhi Bin Liew, Mr. Panagiotis Dedousis, Dr. GEORGE ARAMPATZIS, Dr. Antonia Vyrkou, Ms. Ingrid Nicacio, Mr. Tryfonas Pieri, Dr. ATHANASIOS ANGELIS-DIMAKIS  
CEST ID: 582
- 12:30 > 12:45 **Solid Waste Reuse in the Balkan-Mediterranean Region**  
Prof. Vasilis Angelis, Mr. Andreas Pantazopoulos, Dr. Andreas Alexopoulos, Dr. GEORGE ARAMPATZIS, Dr. ATHANASIOS ANGELIS-DIMAKIS  
CEST ID: 583
- 12:45 > 13:00 **Symbiotic actions for CO<sub>2</sub> capture and utilization in Cyprus**  
Dr. GEORGE ARAMPATZIS, Dr. ATHANASIOS ANGELIS-DIMAKIS, Ms. CHRYSOULA DIMA  
CEST ID: 685
- 13:00 > 13:03 **Green strategies and business ecosystem**  
Dr. Adam Sulich, Dr. Letycja Magdalena So?oducha-Pelc  
CEST ID: 46

- 13:03 > 13:06 **Circular Economy and Green Economy: a network analysis**  
 Dr. Adam Sulich, Dr. Letycja So?oducha-Pelc, Prof. Marcos Ferasso  
 CEST ID: 101
- 13:06 > 13:09 **Dredged sediments as a natural resource**  
 Mrs. G. SOUMPASAKOU, Prof. I. DAMIKOUKA, Prof. O. CAVOURA, Mrs. K. ANAGNOSTOPOULOU  
 CEST ID: 679
- Session 54(P) Soil and groundwater contamination and remediation**  
 Chairs: Dr. Iraklis Panagiotakis, Prof. Dimitris Dermatas
- 15:00 > 15:15 **Practical Applications of Groundwater Modeling in Contaminated Site Investigation and Remediation**  
 Mr. Theodoros Toskos  
 CEST ID: 246
- 15:15 > 15:30 **Data Visualization Techniques for Contaminated Site Investigation and Remediation**  
 Mr. Theodoros Toskos  
 CEST ID: 248
- 15:30 > 15:45 **Reductive Debromination of 1,2-dibromoethane and tribromoethylene by a Shrimp-Shell Biochar and Green Rust Composite**  
 Prof. H. C. Bruun Hansen, Mr. C. Lu, Mr. P. Engelund Holm, Mr. J. Hessner Lindhardt  
 CEST ID: 382
- 15:45 > 16:00 **Column experiments to investigate the fate of per- and polyfluoroalkyl substances (PFASs) in the subsurface during soil stabilisation with colloidal activated carbon**  
 Prof. Fritjof Fagerlund, Prof. Lutz Ahrens, Prof. Dan B. Kleja, Mr. Georgios Niarchos  
 CEST ID: 102
- 16:00 > 16:15 **CONTAMINATED SOIL MANAGEMENT IN GREECE: EU AND INTERNATIONAL BEST AVAILABLE PRACTICES AND RECOMMENDATIONS**  
 Mr. Theodoros Toskos, Prof. Dimitris Dermatas, Mrs. Eleni Strompoula, Dr. Iraklis Panagiotakis  
 CEST ID: 852

## DAY 4 Saturday 4 September ROOM C

- Session 43(P) Wastewater-Based Epidemiology to Monitor COVID-19 Outbreak: Present and Future Diagnostic Methods to be in Your Radar**  
 Chairs: Prof. Nikolaos Thomaidis, Dr. Damia Barcelo
- 09:30 > 10:00 **Keynote presentation: Environment and COVID-19: Pollutants, impacts, technologies, management and recommendations within the "One Health" approach**  
 Prof. Vincenzo Naddeo

- 10:00 > 10:30 **Keynote presentation: Paper-based sensors for wastewater-based epidemiology**  
Dr. Zhugen Yang
- 10:30 > 10:33 **SARS-CoV-2 in wastewater: a seven-month period of monitoring infection dynamic in Athens**  
Mr. Nikolaos S. Thomaidis, Dr. Evi Lianidou, Dr. Athina Markou, Dr. Marios Kostakis, Mrs. Aikaterini Galani, Mrs. Aikaterini Kontou  
CEST ID: 842
- 10:33 > 10:36 **Monitoring illicit stimulant drug use in Cyprus during the COVID-19 lockdown by UPLC-MS/MS**  
Ms. Andrianna Trapali, Dr. Despo Fatta-Kassinos, Dr. Costas Michael, Dr. Christos Mina, Ms. Maria Savvidou, Dr. Popi Karaolia, Dr. Evroula Hapeshi, Dr. Magda Psichoudaki  
CEST ID: 360
- 10:36 > 10:39 **Monitoring of SARS-CoV-2, noroviruses and adenoviruses in wastewater in the Czech Republic**  
Dr. Eva Juranová, Dr. Lucie Jašíková, Dr. V?ra O?enášková, Dr. Lucia Gharwalová, Dr. Petra Vaší?ková, Dr. Kate?ina Sovová, Dr. Hana Mlejnková  
CEST ID: 408
- 10:39 > 11:00 **Determination of SARS-CoV-2 in wastewater: Approaches, gaps and future perspectives**  
Mr. Nikolaos S. Thomaidis

## **Session 49(P) Hydrology and water resources**

Chairs: Prof. Maria Papadopoulou

- 12:00 > 12:15 **Estimation of Evapotranspiration under the Effect of Climate Change in Egypt**  
Prof. I. M. Rashwan, Mr. M. B. Mohameden, Dr. T. A. Gado  
CEST ID: 51
- 12:15 > 12:30 **A stochastic approach to resilience assessment of urban water systems from source to tap.**  
Mr. Dionysios Nikolopoulos, Prof. Christos Makropoulos, Dr. Panagiotis Kossleris  
CEST ID: 147
- 12:30 > 12:45 **Uncertainty aspects of 2D flood modelling in a benchmark case study**  
Dr. Vassilios Tsihrintzis, Dr. Vasilis Bellos  
CEST ID: 521
- 12:45 > 13:00 **Simulation of an urban flash flood: the 2017 flood event in Mandra, Attica**  
Mr. Spyridon Handrinos, Dr. Ioannis Sibetheros, Dr. Vasilis Bellos  
CEST ID: 524
- 13:00 > 13:15 **Updating hydrologic studies and the impact on hydraulic design**  
Dr. Spyridon MICHAS, Dr. Ekaterini DANIIL  
CEST ID: 575

- 13:15 > 13:30 **Implementation of flow duration curves for evaluating the environmental flow**  
Prof. Evangelos Baltas, Mr. Evangelos Hatzigiannakis, Mr. Apollon Bournas, Mr. Sergios Lagogiannis  
CEST ID: 269
- 13:30 > 13:45 **Application of a GIS based distributed model for rainfall runoff simulations**  
Prof. Evangelos Baltas, Mr. Apollon Bournas, Mrs. Theodora Andrikopoulou  
CEST ID: 270
- 13:45 > 13:48 **Automated In-Situ Cyanotoxin Assessment Toolbox For Real-Time Surface Water Monitoring (CYANOBOX)**  
Dr. Panayiota Demosthenous, Prof. Maria G. Antoniou, Dr. Antonis Hadjiantonis, Mrs. Eleni Keliri  
CEST ID: 54

## **Session 55(P) Hydrology and water resources**

Chairs: Dr. Ilias Pechlivanidis

- 15:00 > 15:15 **What is the impact of earth observation and in-situ data assimilation on seasonal hydrological predictions?**  
Dr. Jude Musuuza, Dr. Ilias Pechlivanidis  
CEST ID: 425
- 15:15 > 15:30 **Large sample hydrology and its importance in hydrological forecasting**  
Dr. Marc Girons Lopez, Dr. Louise Crochemore, Dr. Ilias Pechlivanidis  
CEST ID: 427
- 15:30 > 15:45 **Evaluating flooding impact to riverine bridges. The case of the Historical Bridge of Arta in Epirus, Greece**  
Prof. Anastasios Stamou, Mr. George Mitsopoulos, Ms. Elpida Panagiotatou  
CEST ID: 617
- 15:45 > 16:00 **A Decision Support Matrix for Water Quality Based Stormwater Management**  
Mr. Anatoli Vassiljev, Mr. Nils Kändler, Mr. Ivar Annus, Mr. Kristjan Suits  
CEST ID: 490
- 16:00 > 16:15 **Comparison of Analytical and Modeling solutions of the hydrodynamic behavior of drainage channels covered by reed beds**  
Dr. Giuseppe Francesco Cesare Lama  
CEST ID: 688
- 16:15 > 16:30 **Water Losses Assessments to support decision making in WSS management**  
Prof. Barbara Tchorzewska-Cie?lak, Prof. Katarzyna Pietrucha-Urbanik  
CEST ID: 820
- 16:30 > 16:33 **Impacts of Wildfires on Surface Runoff and Erosion: The Case Study of a Fire Event in Pelion Area, Greece**  
Dr. Anthimos Spiridis, Dr. Thomas Psilovikos, Dr. Dimitrios Malamataris, Mr. Theodoros Papathanasiou, Mr. Georgios Mpouras, Prof. Aris Psilovikos  
CEST ID: 566

- 16:33 > 16:36 **Impacts of Land Use and Land Cover Change in a Mediterranean Mountainous Area on Surface Runoff During the Period 1945 – 2018**  
 Dr. Anthimos Spiridis, Dr. Thomas Psilovikos, Mr. Theodoros Papathanasiou, Dr. Dimitrios Malamataris, Mrs. Alkmini Katsada, Prof. Aris Psilovikos  
 CEST ID: 567
- 16:36 > 16:39 **Average seasonal soil erosion and sediment deposition in the Aliakmon and Axios river catchments using the RUSLE model**  
 Mr. E. Karantanellis, Mr. C. Kontopoulos, Mrs. A. Patera, Mrs. Z. Pataki, Prof. D. Kitsiou, Ms. B. Charalampopoulou, Mr. A. Tzepkenlis, Mr. N. Grammalidis, Prof. M. Kostopoulou, Dr. T. Nitinis  
 CEST ID: 596
- 16:39 > 16:42 **Influence of common solar and climate cycles on groundwater level variations**  
 Prof. Emil Bournaki, Prof. Yavor Chapanov  
 CEST ID: 367
- 16:42 > 16:45 **Variations of mean daily discharge of Danube river at 16 stations**  
 Prof. Emil Bournaki, Prof. Yavor Chapanov  
 CEST ID: 368

## DAY 4 Saturday 4 September ROOM VR1

### Session 44(V) Marine environment and coastal management

Chairs: Dr. Michalis Chondros, Prof. Vicky Tsoukala

- 09:30 > 09:45 **Numerical Modelling of Wave Reflection from Port Structures for Reliable Forecasting of Berth Downtime**  
 Dr. Michalis K. Chondros, Dr. Dimitra I. Malliouri, Dr. Anastasios S. Metallinos, Mr. Andreas G. Papadimitriou, Prof. Theofanis V. Karambas, Dr. Christos V. Makris, Mr. Vasilis N. Baltikas, Mr. Yiannis Y. Kontos, Mr. Nikolas Nagkoulis, Dr. Yannis S. Androulidakis, Dr. Georgios Klonaris, Prof. Vasiliki Tsoukala, Prof. Constantine D. Memos  
 CEST ID: 163
- 09:45 > 10:00 **Marine biofilms development: the importance of hydrodynamic conditions and their impacts**  
 Ms. Maria Romeu, Mr. João Morais, Dr. João Miranda, Dr. Ed. de Jong, Dr. Jelmer Sjollema, Prof. Vítor Vasconcelos, Dr. Filipe Mergulhão  
 CEST ID: 284
- 10:00 > 10:15 **Electronic Navigational Charts Portrayal and S-100 Standard based Services for Environmentally Sensitive Sea Areas**  
 Mr. Contarinis Stilianos, Prof. Byron Nakos  
 CEST ID: 639

- 10:15 > 10:30 **Implementation of Maritime Spatial Planning (MSP) in Cyprus focusing on the European MSPs' good practices**  
Mr. Evagoras Evagorou, Mr. Christodoulos Mettas, Dr. Marios Tzouvaras, Ms. Eleni Loulli, Ms. Maria Prodromou, Dr. Christiana Papoutsas, Dr. Kyriacos Themistocleous, Dr. Christos Danezis, Ms. Marina Pekri, Prof. Phaedon Kyriakidis, Dr. Evangelos Akylas, Mr. Kyriakos Aliouris, Mr. Nikolas Ioannou, Prof. Diofantos G. Hadjimitsis  
CEST ID: 292
- 10:30 > 10:33 **Disinfection byproducts and related compounds in the coastal zone: a preliminary compilation**  
Ms. S. Alexandropoulou, Dr. ANASTASIA D NIKOLAOU, Dr. Maria C Vagi  
CEST ID: 834
- 10:33 > 10:36 **Marine litter monitoring: the case study of Paros island**  
Mrs. Dimitra Marmara, Prof. Eva Krasakopoulou, Mr. Michael Ragkousis, Ms. Zana Kontomanoli, Ms. Stella Cevello, Ms. Artemis Kelaidoni  
CEST ID: 488

## **Session 50(V) Environmental odour, monitoring and control**

Chairs: Prof. Tiziano Zarra

- 12:00 > 12:15 **INTEGRATED MONITORING SYSTEM BASED ON CITIZEN SCIENCE APPROACH FOR THE PROACTIVE MANAGEMENT OF ENVIRONMENTAL ODOURS EMISSIONS**  
Dr. Giuseppina Oliva, Prof. Tiziano Zarra, Dr. Vincenzo Senatore, Prof. Vincenzo Naddeo, Prof. Vincenzo Belgiorno  
CEST ID: 577
- 12:15 > 12:30 **Sustainable treatment of air pollutants by moving bed biofilm reactor (MBBR) coupled with algae photobioreactor (APBR)**  
Mr. Rekich Pahunang, Prof. Tiziano Zarra, Dr. Giuseppina Oliva, Dr. Vincenzo Senatore, Prof. Vincenzo Belgiorno, Prof. Florencio Jr. Ballesteros, Prof. Vincenzo Naddeo  
CEST ID: 815
- 12:30 > 12:45 **Ground based integrated path differential absorption sensor for remote sensing of CO<sub>2</sub>, CH<sub>4</sub> and H<sub>2</sub>O atmospheric greenhouse gases**  
Dr. Siozos Panagiotis, Mr. Giannis Psyllakis, Dr. Peter C Samartzis, Dr. Michalis Velegrakis  
CEST ID: 554
- 12:45 > 12:48 **Removal of gaseous ammonia released from odorous composting leachate employing carbonaceous adsorbents prepared from agro-industrial wastes**  
Mr. Thalles PERDIGÃO-LIMA, Prof. Manuel Feliciano, Prof. Adriana Pereira Wilken, Prof. Helder Teixeira Gomes, Ms. Assem A. Shinibekova, Dr. Marzhan Seitovna Kalmakhanova, Prof. Bakytgul Massalimova, Dr. Jose Luis Diaz de Tuesta  
CEST ID: 98
- 12:48 > 12:51 **Anaerobic biodesulfurization in different inoculums**  
Dr. Marinos Stylianou, Prof. Ioannis Vyrides, Prof. Agapios Agapiou, Mr. Charis Samanides  
CEST ID: 527

## **Session 56(V) Water Treatment**

Chairs: Prof. Julia González-Álvarez

- 15:00 > 15:15 **Alternatives for removing fluoride from water for human consumption and water for reuse**  
Dr. Elbert Müller Nigri, Mr. André Alvarenga Santos, Prof. Sônia Denise Ferreira Rocha  
CEST ID: 752
- 15:15 > 15:30 **Efficiency of Arsenic Removal from Water Using Fe-Modified Biochar from Date-Palm-Leaves Combined with Spectral Induced Polarization (SIP) Monitoring**  
Mr. Omer Muhammad Siddiq, Dr. Bassam Tawabini, Dr. Panagiotis Kirmizakis, Dr. Dimitrios Kalderis, Dr. Dimitrios Ntarlagiannis, Prof. Pantelis Soupios  
CEST ID: 119
- 15:30 > 15:45 **Removal Of Arsenic From Water Using Iron-Coated Pomelo Peel (ICPP)**  
Mrs. Thi Hai Nguyen, Dr. Hai Nguyen Tran, Mr. Quoc Bien Nguyen, Dr. Tien Vinh Nguyen, Prof. Saravanamuthu Vigneswaran, Dr. Thi Hoang Ha Nguyen  
CEST ID: 174
- 15:45 > 16:00 **Nutrient Removal from Stormwater using Australian Native Plants in Constructed Floating Wetland**  
Mr. Md Nuruzzaman, Dr. A.H.M. Faisal Anwar, Dr. Ranjan Sarukkalige  
CEST ID: 176
- 16:00 > 16:15 **Preliminary study on fluoride removal from contaminated groundwater by nanofiltration**  
Dr. Ilaria Fuoco, Prof. Carmine Apollaro, Dr. Alessandra Criscuoli, Prof. Rosanna De Rosa, Dr. Alberto Figoli  
CEST ID: 395
- 16:15 > 16:30 **Modelling the operation of a Water Treatment Plant based on Artificial Neural Networks**  
Mr. STYLIANOS GYPARAKIS, Mr. IOANNIS TRICHAKIS, Mr. EMMANUEL A. VAROUCHAKIS, Mr. EVANGELOS DIAMADOUPOULOS  
CEST ID: 409
- 16:30 > 16:45 **Environmental Burdens of a Large Water Treatment Plant: The Operational Phase**  
Ms. Hulya Sahin Akkurt, Dr. Nilay Elginoz, Prof. Gulen Iskender, Prof. Fatos Germirli Babuna  
CEST ID: 677
- 16:45 > 17:00 **Synthesis of Fe<sub>3</sub>O<sub>4</sub>-Ag Nanocomposite and Their Performance as Surface Modifiers for TiO<sub>2</sub> Membranes in Treating Oily Wastewater**  
Mr. Ahmed Mamdouh Aboulella, Dr. Vijay Wadi, Prof. Vincenzo Naddeo, Dr. Fawzi Banat, Prof. ?Shadi Wajih Hasan  
CEST ID: 162
- 17:00 > 17:03 **Removal of wood dyes from aqueous solutions by sorption on un-treated pine sawdust**  
Ms. Catarina Pimentel, Dr. S M. Freire, Dr. Diego Gómez-Díaz, Dr. Julia González-Álvarez  
CEST ID: 438
- 17:03 > 17:06 **New polyacrylonitrile (PAN)-based porous carbons for the removal of industrial wood dyes from aqueous solutions**  
Mrs. L. Domínguez-Ramos, Mr. I. Tejado, Dr. Diego Gómez-Díaz, Dr. S M. Freire, Dr. M. Lazzari, Dr. Julia González-Álvarez  
CEST ID: 439

## DAY 4 Saturday 4 September ROOM VR2

### Session 45(V) Water and wastewater treatment and reuse

Chairs: Dr. Alessandra Cesaro

- 09:30 > 09:45 **Development of Advanced Electrokinetic Separation for Sulfur-Containing Hot Spring Discharge with High Acidity**  
Mr. Po-Chih Tseng, Dr. Chen-Shiuan Fan, Prof. Shu-Yuan Pan, Ms. Yu-I Lin  
CEST ID: 449
- 09:45 > 10:00 **Incorporation of negatively charged MWCNT-fGO self-assembled nanomaterials into PLA polymeric membranes for wastewater treatment**  
Ms. Hiyam Hisham Khalil, Ms. Lobna Nassar, Dr. Vijay S Wadi, Prof. Vincenzo Naddeo, Dr. Fawzi Banat, Prof. ?Shadi Wajih Hasan  
CEST ID: 754
- 10:00 > 10:15 **Investigating the effect of different NaCl concentrations as draw solution used to concentrate synthetic municipal wastewater in a Forward Osmosis system**  
Ms. Stavroula Kappa, Ms. Evangelia Themeli, Mr. Constantinos Noutsopoulos, Mr. Simos Malamis  
CEST ID: 272
- 10:15 > 10:30 **Activated carbon-polyethyleneimine-alginate composite fiber for scavenging pharmaceuticals with different charges from aqueous solutions**  
Mr. Yub Raj Dangi, Mr. Jong-Won Choi Choi, Mr. Cheryongim Lim, Mr. Myung-Hee Song, Mr. Minhee Han, Mr. Xiaoyu Lin, Mr. Yeoung Sang Yun  
CEST ID: 381
- 10:30 > 10:45 **Start-up of full-scale UASB - vertical flow constructed wetland for domestic wastewater treatment**  
Mr. Simos Malamis, Dr. Evangelos Statiris, Mr. Taxiarchis Seintos, Ms. Asimina Koukoura, Mr. Daniel Mamais, Mr. Constantinos Noutsopoulos, Dr. Fabio Masi, Dr. Anacleto Rizzo, Dr. Riccardo Bresciani  
CEST ID: 829

### Session 51(V) Emerging Pollutants

Chairs: Dr. Papassiopi Nymphodora, Dr. Maria-Christina Nika

- 12:00 > 12:15 **Investigation of the performance of green nano Zero Valent Iron for the removal of emerging contaminants from water**  
Ms. Iliana Panagou, Mr. Constantinos Noutsopoulos, Ms. Evridiki I. Barka, Dr. Christiana Mystrioti, Dr. Elena Koumaki, Mr. Daniel Mamais, Prof. Nymphodora Papassiopi, Prof. Simos Malamis  
CEST ID: 276

- 12:15 > 12:30 **SMART TECHNOLOGIES FOR THE CONTROL OF EMERGING CONTAMINANTS IN AMBIENT AIR**  
Dr. Mark Gino Kabiling Galang, Prof. Tiziano Zarra, Prof. Vincenzo Naddeo, Prof. Vincenzo Belgiorno  
CEST ID: 331
- 12:30 > 12:45 **Evaluation of Toxicity of Three Antibiotics to Germination and Early Growth of Trifolium alexandrinum Seeds**  
Ms. Marium Fiaz Fiaz, Mr. Muhammad Arshad  
CEST ID: 418
- 12:45 > 13:00 **EXTRACTION AND DETERMINATION OF PHARMACEUTICAL COMPOUNDS ADSORBED INTO MICROPLASTICS**  
Dr. Sergio Santana-Viera, Dr. Sarah Montesdecoa-Esponda, Dr. María Esther Torres-Padrón, Prof. Zoraida Sosa-Ferrera, Prof. José Juan Santana-Rodríguez  
CEST ID: 652
- 13:00 > 13:15 **Detection of Aflatoxin M1 in milk using Mach-Zehnder optoelectronic immunosensors**  
Dr. Michailia Angelopoulou, Ms. Dimitra Kourti, Dr. Konstantinos Misiakos, Prof. Anastasios Economou, Dr. Panagiota Petrou, Dr. Sotirios Kakabakos  
CEST ID: 772
- 13:15 > 13:30 **The role of microbiological community on organic micropollutants biotransformation in anoxic conditions**  
Mr. Miguel Martinez-Quintela, Dr. Sabela Balboa, Dr. Sonia Suárez, Prof. Francisco Omil  
CEST ID: 667
- 13:30 > 13:45 **How to estimate biocide mass loads in urban water discharges and their impact on the river contamination?**  
Dr. A. BRESSY, Dr. C. PAIJENS, Dr. D. TEDOLDI, Mr. B. FRERE, Dr. Romain MAILLER, Dr. V. ROCHER, Prof. Régis Moilleron  
CEST ID: 357
- 13:45 > 14:00 **Assessing the performance of green nano Zero Valent Iron in column experiments for the removal of NSAIDs from water**  
Ms. Iliana Panagou, Ms. Maria Kalli, Mr. Constantinos Noutsopoulos, Mr. Daniel Mamais, Dr. Elena Koumaki, Mr. Simos Malamis  
CEST ID: 755
- 14:00 > 14:03 **Canada's New Substances Notification Regulations**  
Ms. C. Pinsonnault  
CEST ID: 387
- 14:03 > 14:06 **Ciprofloxacin and sulfamethoxazole biotransformation products in anaerobic packed bed biofilm reactor applied to the sanitary sewage treatment**  
Dr. Rodrigo Braz Carneiro, Dr. Carolina A. Sabatini, Dr. Guilherme M. Titato, Dr. Tanare C. R. Ferreira, Mr. M. Zaiat, Prof. Álvaro J. Santos-Neto  
CEST ID: 645

- 14:06 > 14:09 **Occurrence and potential accumulation of pharmaceuticals in agricultural soils treated with wastewater under real-world environmental conditions in Cyprus**  
Ms. Vasiliki Beretsou, Mr. Iakovos Iakovides, Dr. Maria-Christina Nika, Dr. Georgios Gkotsis, Dr. Anastasis Christou, Mr. Nikolaos S. Thomaidis, Dr. Despo Fatta-Kassinos  
CEST ID: 250
- 14:09 > 14:12 **High resolution mass spectrometric non-target screening and wide-scope target analysis of emerging contaminants and target analysis of legacy contaminants in adult black-tailed godwit *Limosa limosa* in The Netherlands – preliminary findings**  
Dr. Paola Movalli, Prof. Theunis Piersma, Dr. Jos Hooijmeijer, Dr. Anne Dekkinga, Dr. Ruth Howison, Dr. Rene Dekker, Mr. Nikiforos Alygizakis, Dr. Georgios Gkotsis, Dr. Marios Kostakis, Dr. Maria-Christina Nika, Mr. Nikolaos S. Thomaidis, Prof. Koos Biesmeijer  
CEST ID: 634
- 14:12 > 14:15 **Current challenges and future perspectives on the use of contaminant data from apex predators for chemicals hazard prioritization**  
Mrs. Gabriele Treu, Dr. Nikiforos Alygizakis, Mr. Alexander Badry, Mr. Kevin Bauer, Dr. Alessandra Cincinelli, Dr. Daniela Claßen, Dr. Rene Dekker, Dr. Wiebke Drost, Dr. Guy Duke, Dr. Maria-Christina Nika, Dr. Natalia Glowacka, Dr. Burkhard Knopf, Mr. Jan Koschorreck, Dr. Tania Martellini, Dr. Paola Movalli, Dr. Heinz Rüdel, Mr. Nikolaos S. Thomaidis, Dr. Lee Walker, Dr. Jaroslav Slobodník, Mrs. Varvara Nikolopoulou, Mr. Georgios Gkotsis  
CEST ID: 609

## Session 57(V) Emerging Pollutants

Chairs: Dr Pablo Gago-Ferrero

- 15:00 > 15:15 **Sampling Strategies of Microplastic in Stormwater Runoff from Separate Drainage Systems**  
Mr. Attaallah Abusafia, Dr. Christian Scheid, Ms. Maren Meurer, Dr. Korinna Altmann, Dr. Ulrike Braun, Dr. Claus-Gerhard Bannick, Prof. Ulrich Dittmer, Prof. Heidrun Steinmetz  
CEST ID: 90
- 15:15 > 15:30 **Determination of 56 perfluoroalkyl acids and precursors in top predators and their prey from Northern Europe by LC-MS/MS**  
Mr. A. F. Androulakakis, Mr. Nikiforos Alygizakis, Dr. Georgios Gkotsis, Dr. Maria Christina Nika, Ms. V. Nikolopoulou, Ms. Erasmia A. Bizani, Prof. E. Chadwick, Dr. Alessandra Cincinelli, Dr. Daniela Claßen, Dr. S. Danielsson, Dr. Rene Dekker, Dr. Guy Duke, Dr. Natalia Glowacka, Dr. H. Jansman, Dr. O. Krone, Dr. Tania Martellini, Dr. Paola Movalli, Dr. S. Persson, Dr. A. Roos, Dr. E. O'Rourke, Prof. U. Siebert, Mrs. Gabriele Treu, Mr. N. van den Brink, Dr. L. Walker, Dr. Jaroslav Slobodník, Mr. Nikolaos S. Thomaidis  
CEST ID: 712
- 15:30 > 15:45 **Investigating the accumulation of 115 pharmaceutical compounds in the water-soil-plant continuum and the leaching potential using lysimeters irrigated with wastewater from a CAS and MBR system, under real-field conditions**  
Mr. Iakovos Iakovides, Ms. Vasiliki Beretsou, Dr. Anastasis Christou, Dr. Georgios Gkotsis, Dr. Maria-Christina Nika, Mr. Nikolaos S. Thomaidis, Dr. Despo Fatta-Kassinos  
CEST ID: 217

- 15:45 > 16:00 **Quantitative target screening and soil bioavailability assessment as tools to assess risks associated with wastewater reuse for irrigation**  
Ms. Vasiliki Beretsou, Dr. Maria-Christina Nika, Dr. Kyriakos Manoli, Prof. Lian Lundy, Mr. Nikolaos S. Thomaidis, Prof. Mike D. Revitt, Dr. Despo Fatta-Kassinos  
CEST ID: 259
- 16:00 > 16:15 **Cometabolic biotransformation of organic micropollutants under aerobic heterotrophic conditions**  
Mr. David M. Kennes-Veiga, Ms. Bernadette Vogler, Prof. Kathrin Fenner, Dr. Marta Carballa, Mr. Juan M. Lema  
CEST ID: 659
- 16:15 > 16:30 **Effects of sunscreens on plants: Impact of TiO<sub>2</sub> nanoparticles on the phytoremediation of oxybenzone**  
Prof. Peter Schröder, Prof. Feiran Chen  
CEST ID: 20
- 16:30 > 16:33 **Effect of water extractable organic matter from Pamvotis lake sediment on three psychoactive drugs under simulated solar light**  
Mrs. CRISTINA J?MÉNEZ-HOLGADO, Mr. V. Sakkas, Prof. CLAIRE RICHARD  
CEST ID: 477

## DAY 4 Saturday 4 September ROOM VR3

### Session 46(V) Air pollution

Chairs: Dr. Giuseppina Oliva

- 09:30 > 09:45 **Investigation of BVOC levels in a coastal urban environment: The Piraeus Port in Greece**  
Prof. S Sauvage, Prof. Nikolaos Mihalopoulos, Dr. Evangelos Gerasopoulos, Dr. G Grivas, Dr. A Panopoulou, Dr. Eleni Liakakou  
CEST ID: 463
- 09:45 > 10:00 **Non-Road Mobile Machinery Emission Inventory in Forestry – First Results for Croatia**  
Mr. Zoran Luli?, Mr. Goran Šagi, Mr. Petar Ilin?i?, Mr. Šimun Lon?arevi?  
CEST ID: 470
- 10:00 > 10:15 **EVALUATION OF THE EFFECTS OF THE COVID-19 RESTRICTIONS MEASURES ON THE AIR QUALITY AS A TOOL TO IMPLEMENT PREVENTION STRATEGIES**  
Prof. Vincenzo Naddeo, Prof. Vincenzo Belgiorno, Dr. Mark Gino Kabling Galang, Mr. Domenico Giaquinto, Dr. Vincenzo Senatore, Prof. Tiziano Zarra, Dr. Giuseppina Oliva  
CEST ID: 576
- 10:15 > 10:30 **Assessment of particulate pollution in a medium sized Greek city - the effect of biomass burning and COVID-19 lockdown**  
Mrs. Vagioula Diamanti, Mr. Athanasios Triantafyllou, Mr. Stelios Garas  
CEST ID: 588

- 10:30 > 10:45 **An integrated and comprehensive tool to assess urban mobility strategies**  
Dr. María Elena Huertas, Dr. Jose Ignacio Huertas  
CEST ID: 660
- 10:45 > 11:00 **Performance Evaluation of a Portable and Cost-effective Atmospheric Particulate Matter Monitor**  
Prof. George Biskos, Mr. Costi Marinos, Mr. Neoclis Hadjigeorgiou, Ms. Roubina Papaconstantinou, Dr. Spyros Bezantakos  
CEST ID: 411

## Session 52(V) Air pollution

Chairs: Dr. Giuseppina Oliva

- 12:00 > 12:15 **Design of Road-Side Barriers to Mitigate Air Pollution near Roads**  
Mr. Cristian Lopez, Dr. Omar Lopez, Mr. Javier Aguirre, Dr. Jose Ignacio Huertas  
CEST ID: 680
- 12:15 > 12:30 **Air pollution assessment for regulatory purposes: a CFD approach design**  
Prof. María José Suárez López, Dr. Juan Luis Carús Candás, Prof. Eduardo Álvarez Álvarez, Mr. Víctor Manuel Fernández Pacheco, Ms. Elena Antuña Yudego  
CEST ID: 707
- 12:30 > 12:45 **Technology hybridization for real time particulate matter monitoring**  
Dr. Aflalo Salomon Serge, Mr. Azzédine Ben Daoud, Dr. Claire Thaury, Mr. Jérôme Louat  
CEST ID: 673
- 12:45 > 13:00 **Development of an emission inventory for commercial cooking in Attica**  
Mr. Aggelos Kladakis, Dr. Kyriaki - Maria - Fameli, Dr. Vasiliki Assimakopoulos  
CEST ID: 175
- 13:00 > 13:03 **Evaluation of atmospheric pollutants dispersion using CFD numerical models**  
Prof. Eduardo Álvarez Álvarez, Dr. Juan Luis Carús Candás, Prof. María José Suárez López, Ms. Elena Antuña Yudego, Mr. Víctor Manuel Fernández Pacheco  
CEST ID: 708

## Session 58(V) Environmental Biotechnology and Bioenergy

Chairs: Dr Eleftheria Klontza

- 15:00 > 15:15 **Novel hybrid technology for the sustainable development of the circular economy in urban agriculture**  
Prof. Shadi Wajih Hasan, Prof. Vincenzo Naddeo, Prof. Vincenzo Belgiorno, Prof. Tiziano Zarra, Prof. Antonio Nesticò, Dr. Giuseppina Oliva, Dr. Vincenzo Senatore, Mr. Domenico Giaquinto  
CEST ID: 286
- 15:15 > 15:30 **Biogas upgrade via ex-situ technologies**  
Mr. Apostolos Spyridonidis, Prof. KATERINA Stamatelatou, Dr. Ioanna I. Vasiliadou  
CEST ID: 386

- 15:30 > 15:45 **The potential impact of an implementation of microalgae-based wastewater treatment on the energy balance of a municipal WWTP in Central Europe**  
Prof. Silvio Beier, Prof. Ulf Theilen, Dr. Christina M. Kuchendorf, Mr. Daniel Krahe, Mr. Nils Hasport  
CEST ID: 430
- 15:45 > 16:00 **Microalgae biomass cultivation and harvesting optimization in biological carbon capture and utilization systems for biofuels production**  
Prof. Vincenzo Naddeo, Prof. Vincenzo Belgiorno, Mr. P. Napodano, Dr. Antonio Buonerba, Dr. Giuseppina Oliva, Prof. Tiziano Zarra, Dr. Vincenzo Senatore  
CEST ID: 590
- 16:00 > 16:03 **Production and characterization of microalgal biomass from dairy wastewater**  
Mrs. Anthi Panara, Prof. Athanasios S Stasinakis, Mr. Nikolaos S. Thomaidis, Prof. Michalis S Fountoulakis, Dr. Marilena Dasenaki, Dr. Maria Aloupi, Dr. Eirini Zkeri, Mrs. Athanasia Iliopoulou  
CEST ID: 228
- 16:03 > 16:06 **Prohibition of the cultivation of Genetically Modified Organisms in Cyprus through the attitudes of stakeholders**  
Prof. Antonis A. Zorpas, Mrs. Antri Varnava Tello  
CEST ID: 193



# CEST2021 Posters

## Spatial environmental planning

### **Detection of disturbances of thyme habitats on Lemnos island with Landsat time series analysis (Poster)**

Prof. Georgios K. Vasilios, Dr. Aggeliki Kaloveloni, Ms. Eleftheria Alexoudaki, Mr. Ioannis Kakaroglou, Prof. Andreas Y. Troumbis

### **Assessing the role of Posidonia banquettes in coastline protection against erosion, through UAV technology and granulometric analysis: Preliminary results from the case of Schinias-Marathon National Park, Attica, Greece. (Flash Paper Presentation)**

Dr. Dimitrios Vandarakis, Dr. Maria Salomidi, Dr. Vassilis Gerakaris, Dr. Yannis Issaris, Mr. Ioannis Kourlaftis, Mrs. Chara Agaoglou, Dr. Vassilis Kapsimalis, Dr. Ioannis Panagiotopoulos

### **Environmental Sustainability Indicators applied to Tourism Sector in Sicily (Flash Paper Presentation)**

Prof. Agata Matarazzo, Prof. Antonio Zerbo, Dr. Carla Serrano

### **Evaluating the Influence of Spatial Resolutions of DEM on Estimation of Watershed Runoff and Sediment Yield using SWAT (Flash Paper Presentation)**

Dr. A. Bandyopadhyay, Mr. V. Nyekha, Dr. N. Chiphang, Dr. A. Bhadra

## Advanced Oxidation Processes

### **Magnetite-decorated catalytic membrane reactor for the continuous-flow CWPO of micropollutants (Flash Paper Presentation)**

Ms. Neus López-Aragó, Ms. Julia Nieto-Sandoval, Dr. Macarena Munoz, Prof. Zahara de Pedro, Prof. Jose Antonio Casas

### **Regeneration of dissolved Fe(II) from Fenton sludge at a microbial fuel cell using a novel biocathode (Flash Paper Presentation)**

Mr. Guan Wang, Dr. Kai Tang, Mrs. Yufeng Jiang, Prof. Henrik Rasmus Andersen, Dr. Yifeng Zhang

### **EVALUATION OF PHOTOCHEMICAL DEGRADATION OF ANTIVIRAL ACYCLOVIR BY UVC/PS & UVC/H<sub>2</sub>O<sub>2</sub> IN SYNTHETIC FRESH AND HYDROLYZED URINE (Flash Paper Presentation)**

Mrs. C. Drosou, Mrs. K. Tyrovolas, Mr. N. P. Xekoukoulakis

### **Oxidation of acetaminophen by ultrasound waves and H<sub>2</sub>O<sub>2</sub> combined technology (Poster)**

Dr. Natalia Villota, Dr. Jose Maria Lomas, Ms. Cristian Ferreiro, Dr. Luis Miguel Camarero, Prof. Jose Ignacio Lombraña

## **Valorisation of polyolefins into magnetic carbon nanotubes: application as catalysts in wet peroxide oxidation of paracetamol (Poster)**

Mr. Lucas Fenato Sanches, Mr. Adriano Santos Silva, Ms. Fernanda Fontana Roman, Dr. Jose Luis Diaz de Tuesta, Prof. Fernando Alves da Silva, Prof. Helder Teixeira Gomes

## **TiO<sub>2</sub>/Fe<sub>2</sub>O<sub>3</sub> based Composites for Solar-driven Photocatalytic Degradation of Amoxicillin (Poster)**

Mr. Francis dela Rosa, Mrs. Josipa Papac, Mr. Marin Kovačić, Mr. Hrvoje Kušić, Mrs. Ana Lončarić Božić

## **Toxicity study of Norfloxacin degradation by advanced oxidative process (Flash Paper Presentation)**

Ms. Bruna Costa, Ms. Sabrina Grando Cordeiro, Mr. Ytan Andreine Schweizer, Ms. Ani Caroline Weber, Mr. Peterson Haas, Mrs. Letícia Angeli de Oliveira, Mr. Eduardo Miranda Ethur, Mrs. Lucélia Hoehne

## **Caffeine oxidation by sono-Fenton treatment (Flash Paper Presentation)**

Dr. Jose Maria Lomas, Dr. Natalia Villota, Mr. Cristian Ferreiro, Dr. Luis Miguel Camarero, Prof. J. Ignacio Lombraña

## **Application of carbon-based catalysts derived from compost on catalytic wet peroxide oxidation of leachate waters from mechanical and biological treatment plant units for municipal solid waste (Flash Paper Presentation)**

Mr. Gabriel De Freitas Batista, Ms. Fernanda Fontana Roman, Dr. Jose Luis Diaz de Tuesta, Prof. Raquel Vieira Mambrini, Prof. Helder Teixeira Gomes

## **Magnetic CoFe<sub>2</sub>O<sub>4</sub>@carbon yolk-shell nanoparticles as catalysts for the catalytic wet peroxide of paracetamol (Flash Paper Presentation)**

Mr. Adriano Santos Silva, Mr. Nathália Maria Costa Guari, Dr. Jose Luis Diaz de Tuesta, Prof. Walmir Eno Pottker, Prof. Patricia Hissae Yassue Cordeiro, Prof. Helder Teixeira Gomes

## **Carbon nanotubes synthesized from LDPE for application in wet peroxide oxidation of paracetamol (Flash Paper Presentation)**

Ms. Fernanda Fontana Roman, Ms. Jessica Paula Marim Lopes, Dr. Jose Luis Diaz de Tuesta, Prof. Giane Gonçalvez Lenzi, Prof. Adrián M.T. Silva, Prof. Joaquim Luis Faria, Prof. Helder Teixeira Gomes

## **Silver decorated TiO<sub>2</sub>/g-C<sub>3</sub>N<sub>4</sub> nanocomposites for photocatalytic elimination of water pollutants under UV and artificial solar light (Flash Paper Presentation)**

Mr. Islam Ibrahim, Mr. George V Belessiotis, Dr. Andreas Kaltzoglou, Dr. Fotios Katsaros, Prof. Tarek M Salama, Dr. Polycarpos Falaras

## **Sonolytic and hybrid-sonolytic degradation of 6-hydroxy-methyl uracil, a model compound for the study of cyanotoxin cylindrospermopsin. (Flash Paper Presentation)**

Mr. Christophoros E. Christophoridis, Mr. Nikolaos S. Thomaidis, Ms. Erasmia A. Bizani, Mr. Evangelos Synefakis, Ms. Maria Voumvouraki, Ms. Anastasia Hiskia

## **Solar photocatalytic degradation of pharmaceutical compounds using ZnSnO<sub>3</sub>/CB composites (Flash Paper Presentation)**

Mr. K Kouvelis, Dr. A Petala, Dr. Z Frontistis, Dr. D. Kondarides

## Water Treatment

### New polyacrylonitrile (PAN)-based porous carbons for the removal of industrial wood dyes from aqueous solutions (Flash Paper Presentation)

Mrs. L. Domínguez-Ramos, Mr. I. Tejado, Dr. Diego Gómez-Díaz, Dr. S M. Freire, Dr. M. Lazzari, Dr. Julia González-Álvarez

### Removal of wood dyes from aqueous solutions by sorption on un-treated pine sawdust (Flash Paper Presentation)

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Mrs. K. Diamanti, Dr. Maria Christina Nika, Mr. Nikiforos Alygizakis, Dr. Marios Kostakis, Mrs. A. Koupa, Dr. Peter Oswald, Prof. L. Cirka, Dr. Jaroslav Slobodnik, Mr. Nikolaos S. Thomaidis

### **Assessment of the pH-effect on the toxicity, uptake & biotransformation of Fluoxetine in Zebrafish (*Danio rerio*) embryos by LC-ESI-QTOFMS (Flash Paper Presentation)**

Ms. Eleni Panagopoulou, Ms. Vasiliki Tzepkinli, Mr. Dimitrios Damalas, Dr. Reza Aalizadeh, Dr. Mona Schweizer, Prof. Heinz R. Kohler, Mr. Peter C. Von der Ohe, Mrs. Rita Triebeskorn, Mr. Nikolaos S. Thomaidis, Ms. Pia Berge Schulze

### **Combining consumption-based approach and chemical analysis for identifying pharmaceuticals occurrence in hospital wastewater (Poster)**

Mrs. Athanasia Iliopoulos, Mr. Stelios Gyparakis, Dr. Olga S Arvaniti, Mr. Ioannis Sabathianakis, Mr. Evangelos Karagiannis, Dr. Maria-Christina Nika, Mr. Nikolaos S. Thomaidis, Mrs. Niki Kanellopoulou, Mr. THRASSYVOULOS MANIOS, Prof. Michalis S Fountoulakis, Prof. Athanasios S Stasinakis

### **Determination of the occurrence of pharmaceuticals in Irish surface waters (Flash Paper Presentation)**

Mr. Dylan O'Flynn, Prof. Fiona Regan, Dr. Blanaid White, Ms. Imogen Hands, Dr. Jenny Lawler

## **Circular economy and industrial symbiosis**

### **Circular Economy and Green Economy: a network analysis (Flash Paper Presentation)**

Prof. Marcos Ferasso, Dr. Letycja So?oduco-Pelc, Dr. Adam Sulich

### **Green strategies and business ecosystem (Flash Paper Presentation)**

Dr. Letycja Magdalena So?oduco-Pelc, Dr. Adam Sulich

### **Dredged sediments as a natural resource (Flash Paper Presentation)**

Mrs. K. ANAGNOSTOPOULOU, Prof. O. CAVOURA, Mrs. G. SOUMPASAKOU, Prof. I. DAMIKOUKA

### **The Lombard Dairy Industry in the Perspective of Circular Economy: Degree of Application and Improvement Potentials (Flash Paper Presentation)**

Mr. E. Mehner, Dr. V. Fantin, Dr. D. Pizzichini, Prof. S. Vergalli, Mr. Mentore Vaccari

### **Comparison the effectiveness of three outranking multicriteria methods as analytical tools for the efficiency assessment of biorefineries/ waste-to-energy technologies (Flash Paper Presentation)**

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## **Environmental data analysis and modelling**

### **Artificial Neural Network (ANNs) for predicting petroleum hydrocarbons from heavy metals contaminated soils around fuel stations (Poster)**

Dr. Maria Grazia Bonelli, Dr. Andrea Manni, Dr. Giovanna Saviano

### **Dual Discounting for the Environmental Decision-Making (Flash Paper Presentation)**

Dr. Gabriella Maselli, Prof. Antonio Nesticò

### **Nonlinear Autoregressive Neural Networks for Air Temperature forecasting (Flash Paper Presentation)**

Dr. Konstantinos Philippopoulos, Prof. Chris G. Tzanis, Prof. Despina Deligiorgi, Mr. Anastasios Alimisis

### **Pedestrian preferences of urban design features in city squares of Athens, Greece (Flash Paper Presentation)**

Dr. Katerina Pantavou, Mr. Ioannis Koletsis, Dr. Spyridon Lykoudis, Prof. Ioannis X Tsilos

### **Assessment of thermal indices applicability in Cyprus (Flash Paper Presentation)**

Dr. Katerina Pantavou, Mr. George Giallouros, Dr. Spyridon Lykoudis, Dr. Georgios Nikolopoulos

## **The potential of UAV multispectral imagery to estimate chlorophyll content of vine leaves (Flash Paper Presentation)**

Dr. Garegin Tepanosyan, Dr. Vahagn Muradyan, Ms. Azatuhi Hovsepyan, Mr. Grigor Ayvazyan, Ms. Rima Avetisyan, Dr. Shushanik Asmaryan

## **The expected dynamics of the wind conditions in the West Iberian nearshore, in the context of the climate change (Flash Paper Presentation)**

Prof. Eugen RUSU

## **Climatology of the impact of atmospheric circulation on surface meteorological conditions over Greece (Poster)**

Dr. Konstantinos Philippopoulos, Prof. Chris G. Tzanis, Prof. Despina Deligiorgi, Mr. Anastasios Alimisis

## **Validation of ENVI-met microscale model with in-situ measurements in warm thermal conditions across Athens area (Poster)**

Mr. Ioannis Koletsis, Dr. Areti Tseliou, Dr. Spyridon Lykoudis, Prof. Ioannis X Tsilos, Dr. Kostas Lagouvardos, Dr. Basil Psiloglou, Dr. Dimitra Founda, Dr. Katerina Pantavou

## **Determining the phenological stages of Nestos-Delta (*Alnus glutinosa*) riparian forest (Natura 2000 site) by using radiation transmittance data (Poster)**

Dr. N Proutsos, Dr. G. Karetos, Mr. C. Tsagari

## **Analyzing 50 Years of Major Fog Events Across the Central Coastal Plain of Israel (Poster)**

Dr. Noam David, Mr. Asaf Rayitsfeld, Prof. Oliver H. Gao

## **A model-based study on the impact of different tree configurations on the thermal conditions of an urban square (Poster)**

Dr. Areti Tseliou, Mr. Ioannis Koletsis, Mrs. Eleni Thoma, Dr. N Proutsos, Dr. S. Lykoudis, Dr. Katerina Pantavou, Prof. Ioannis X Tsilos

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### **Nation-wide monitoring campaign of 53 contaminants of emergent concern in surface waters and sediments (EMNAT 2018): occurrence and PNEC exceedance evaluation (Poster)**

Mr. Azziz Assoumani, Mr. François Lestremau, Mrs. Céline Ferret, Mrs. Bénédicte Lepot, Mrs. Marion Le Gall, Mrs. Morgane Salomon, Mrs. Hélène Budzinski, Mrs. Marie-Hélène Dévier, Mr. Pierre Labadie, Mrs. Karyn Le Menach, Mr. Patrick Pardon, Mrs. Laure Wiest, Mrs. Emmanuelle Vulliet, Mr. Pierre-François Staub

**Investigation of the presence of organic micropollutants in biota specimens from the Antarctica ecosystem using state-of-the-art wide-scope target and suspect HRMS methodologies. (Poster)**

Dr. Georgios Gkotsis, Dr. Maria Christina Nika, Mr. Konstantinos Vasilatos, Ms. Anastasia Orfanioti, Ms. Antonia Athanasopoulou, Dr. Nikiforos Alygizakis, Dr. Peter Oswald, Dr. Jaroslav Slobodnik, Mr. Nikolaos S. Thomaidis

**Study on the fate of the chemical uncoupler 3,3?,4?,5-tetrachlorosalicylanilide (TCSA) in activated sludge process and investigation of its effects to different aquatic organisms (Poster)**

Dr. Georgia Gatidou, Mr. Pasxalis Hatzopoulos, Dr. Ravi Kumar Chhetri, Mrs. Argyro Kokkoli, Mr. Andreas Giannakopoulos, Dr. Olga S Arvaniti, Prof. Henrik Rasmus Andersen, Prof. Athanasios S Stasinakis

**Patterns of drug use and chemical exposure in Athens (Greece) during COVID-19 pandemic using wastewater-based epidemiology (Poster)**

Mrs. Eleni Aleiferi, Mrs. Aikaterini Galani, Mrs. Aikaterini Kontou, Mrs. Aglaia Gkogkou, Dr. Maria Christina Nika, Mr. Nikiforos Alygizakis, Mr. Nikolaos S. Thomaidis

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**Toxicity, uptake, and biotransformation assessment of zebrafish embryos exposed to tetracaine, under different pH values, utilizing embryotoxicity and LC-HRMS (Poster)**

Mr. Dimitrios Damalas, Ms. Eleni Panagopoulou, Mrs. Eleni Aleiferi, Ms. Vasiliki Tzepkinli, Dr. Reza Aalizadeh, Dr. Mona Schweizer, Mrs. Julia Kuttler, Prof. Heinz R. Kohler, Mr. Peter C. Von der Ohe, Mrs. Rita Triebeskorn, Mr. Nikolaos S. Thomaidis

**Effect of water extractable organic matter from Pamvotis lake sediment on three psychoactive drugs under simulated solar light (Flash Paper Presentation)**

Mrs. CRISTINA J?MÉNEZ-HOLGADO, Mr. V. Sakkas, Prof. CLAIRE RICHARD

**Designing sustainable processes for the valorization of industrial and environmental waste streams towards industrializable polyhydroxyalkanoates (Poster)**

Dr. Ioanna Ntaikou, Dr. GEORGIA ANTONOPOULOU, Dr. Ioanna Kokkinopoulou, Dr. Dimitris Ladakis, Mr. Konstantinos Tragoulias, Dr. Yi Zhang, Dr. Qun Yan, Mr. Jiangkun Nan, Mr. Katerina Pissaridi, Prof. Vasilis Spiliotis, Dr. Dimitris Ladikos, Prof. Paraskevi Moutsatsou, Dr. Apostolos Koutinas, Prof. Gerasimos Lyberatos

**Occurrence and potential accumulation of pharmaceuticals in agricultural soils treated with wastewater under real-world environmental conditions in Cyprus (Flash Paper Presentation)**

Ms. Vasiliki Beretsou, Mr. Iakovos Iakovides, Dr. Maria-Christina Nika, Dr. Georgios Gkotsis, Dr. Anastasis Christou, Mr. Nikolaos S. Thomaidis, Dr. Despo Fatta-Kassinos

**High resolution mass spectrometric non-target screening and wide-scope target analysis of emerging contaminants and target analysis of legacy contaminants in adult black-tailed godwit *Limosa limosa* in The Netherlands – preliminary findings (Flash Paper Presentation)**

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## Environmental Biotechnology and Bioenergy

**Prohibition of the cultivation of Genetically Modified Organisms in Cyprus through the attitudes of stakeholders (Flash Paper Presentation)**

Mrs. Antri Varnava Tello, Prof. Antonis A. Zorpas

**Production of added-value metabolites during growth of wild-type yeast strains on media composed of biodiesel-derived crude glycerol (Poster)**

Dr. Panagiota Diamantopoulou, Mrs. Rosanina Filippousi, Mrs. Sofia Sarantou, Prof. Nikolaos G Stoforos, Mr. Evangelos Xenopoulos, Prof. Seraphim Papanikolaou

**Lipid production by *Rhodosporidium toruloides* during growth on biodiesel-derived crude glycerol (Poster)**

Mrs. Sofia Sarantou, Prof. Nikolaos G Stoforos, Mrs. Kalantzi Ourania, Dr. Panagiota Diamantopoulou, Prof. Seraphim Papanikolaou

**Production and characterization of microalgal biomass from dairy wastewater (Flash Paper Presentation)**

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## **Evaluation of viable anode material for bioelectricity production in Microbial Fuel Cell (Flash Paper Presentation)**

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Dr. Kumari Namita Talapatra, Dr. Uttam Kumar Ghosh

## **Hydrogen production in a microbial electrolysis cell: the influence of operational parameters (Flash Paper Presentation)**

Dr. GEORGIA ANTONOPOULOU, Mr. ILIAS APOSTOLOPOULOS, Dr. G Bampas, Prof. SYMEON BEBELIS, Dr. G LYBERATOS

## **Red Mud as a Secondary Source of Scarce Metals - Recovery using Red Microalgae (Flash Paper Presentation)**

Mr. Vít Náhlík, Dr. Mária ?ížková, Dr. Anjali Singh, Dr. Kate?ina Bišová, Prof. Dana Mezricky, Dr. Marian Rucki, Prof. Milada Vítová

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## **Soil and groundwater contamination and remediation**

### **Fire-induced oxidation of Cr(III) in serpentine soils (Poster)**

Dr. F. Botsou, Ms. Sofia Vitzilaiou, Mr. Giuseppe Guerra, Ms. Pulcheria Valla, Dr. Efstratios Kelepertzis, Prof. MANOS DASSENAKIS, Prof. Ariadne Argyraki

### **Study of the potential of Rhodococcus strains for degradation of the pesticide Glyphosate (Roundup) (Flash Paper Presentation)**

Dr. Maria Gerginova, Mrs. Nadejda Peneva, Prof. Zlatka Alexieva

### **Biodegradation of anthracene by an Antarctic fungal strain a member of genus Alternaria (Flash Paper Presentation)**

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Prof. Mohammad S Al-suwaiyan

### **Groundwater Flow Dynamics in Shallow Coastal Plain Sands Aquifer, Abesan Area, Eastern Dahomey Basin, Southwestern Nigeria. (Flash Paper Presentation)**

Ms. Anne Ayomiposi Joseph

## **Innovative Environmental Solutions**

### **Research on vegetable farming in vertical hydroponic system (Flash Paper Presentation)**

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## **ANALYSIS OF THE 0.1% AND 1% FLOODBANDS RELATING TO THE NV AREA OF THE CEAHLAU MASSIVE, THE CONFLUENCE SECTOR OF THE BISTRICIORA RIVER (Poster)**

Ms. E. HUTANU, Mr. Valeriu Linu-Stoilov, Ms. L E. PAVELUC, Mr. Cristian Constantin Stoleriu, Mr. A. MIHU-PINTILIE, Mr. A. GROZAVU

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Dr. T. A. Gado, Mrs. D. H. Zamzam, Prof. B. A. Zeidan

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## **Marine environment and coastal management**

## **Disinfection byproducts and related compounds in the coastal zone: a preliminary compilation (Flash Paper Presentation)**

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## **Correction of the predicted wave characteristics using regression methods – a case study for the Iberian coastal environment (Poster)**

Prof. Liliana Rusu

## **Implications of small-scale fisheries in Istrian waters on cartilaginous species (Poster)**

Mr. N. Iveša, Dr. M. Burši?, Mr. M. Gelli, Mr. O. Bari?, Mr. R. Filipas, Mr. A. Castellicchio, Dr. A. Gavrilovi?

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## **Circular economy and industrial symbiosis**

## **Circular Economy and Green Economy: a network analysis (Flash Paper Presentation)**

Prof. Marcos Ferasso, Dr. Letycja So?oduco-Pelc, Dr. Adam Sulich

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Dr. V?ra O?enášková, Ms. E. Bohadlová, Dr. D. Marešová, Mrs. D. Pospíchalová, Ms. N. Cielecká

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### **Water and wastewater treatment and reuse**

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#### **Comparison of the continuous fermentative hydrogen production efficiency from cheese whey in suspended and attached-biomass growth systems (Flash Paper Presentation)**

Dr. MARIA ALEXANDROPOULOU, Prof. Gerasimos Lyberatos, Dr. GEORGIA ANTONOPOULOU

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Mr. Leone Mazzeo, Dr. Irene Bavasso, Prof. Luca Di Palma

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**Photocatalytic Removal of Pesticides Present in Agro-industrial Water Effluents (Flash Paper Presentation)**

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**IMPROVING INNOVATION CAPACITIES OF PRIVATE AND PUBLIC ACTORS FOR SUSTAINABLE AND PROFITABLE RECYCLING OF LIVESTOCK WASTE (Flash Paper Presentation)**

Prof. Maria G. Antoniou, Mrs. Nomiki I. Kallikazarou, Mrs. Emorfia Constantinide, Mr. Loukas Koutsokeras, Prof. Georgios Constantinides

**Monitoring and treatment of St. George lake to mitigate Cyanobacterial Harmful Algal Blooms (cyano-HABs) (Flash Paper Presentation)**

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Dr. Safa Chaabane, Mr. Anis Ghattassi, Ms. Khitem Mensi, Mr. Fadhel M'hiri, Dr. Konstantinos V Plakas

**Letrozole and tamoxifen in municipal wastewater and their photodegradation in ultraviolet (UV) treatment (Flash Paper Presentation)**

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**Disaster risk reduction and management**

## **Assessing the risks of climate change for cultural heritage – The CLIMASCAPE project (Flash Paper Presentation)**

Prof. Constantinos Cartalis, Mr. Anastasios Polydoros, Mrs. Thaleia Mavrakou, Dr. Konstantinos Philippopoulos, Dr. Evangelos Asprogerakas, Dr. Panayotis Pantazis, Dr. Anna Samarina, Dr. Sofia Zoumpaki, Dr. Michalis Karambinis

## **Quantifying and mapping urban trees' decay severity using thermal and spatial indices: implications for tree hazard assessment and management (Poster)**

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#### **A New Method for Emission Control System Malfunction Detection During the Periodic Technical Inspection (Flash Paper Presentation)**

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## **Agroforestry, Forest and Agricultural Sustainability**

### **Production parameters and nutritional value of Pleurotus ostreatus mushroom cultivated on agricultural wastes (Poster)**

Mrs. Eirini Maria Melanouri, Dr. Katerina Fourtaka, Prof. Seraphim Papanikolaou, Dr. Panagiota Diamantopoulou

### **Fir decline and necrosis: the role of climate change and forest fires (Poster)**

Dr. Andreas Papadopoulos, Mrs. Chrisoula Sotiriou, Dr. Anastasia Pantera

### **Detoxification of molasses and production of mycelial mass and polysaccharides from Morchella conica mushroom. (Poster)**

Mrs. Marianna Dedousi, Mr. Ilias Diamantis, Mrs. Eirini Maria Melanouri, Dr. Katerina Fourtaka, Dr. Panagiota Diamantopoulou

### **Biotechnological treatment of oil mill waste-water to produce high value-added mycelial products. (Poster)**

Mr. Ilias Diamantis, Mrs. Marianna Dedousi, Mrs. Eirini Maria Melanouri, Dr. Katerina Fourtaka, Dr. Panagiota Diamantopoulou

## **Rural Development and Local Government - The example of the Regional Unit of Evritania in the development of beekeeping (Poster)**

Dr. Aristeidis Tasios, Dr. Sofia Gounari, Prof. Georgios Fotiadis, Dr. Andreas Papadopoulos

## **Mechanism of tolerance and adaptive strategies developed by *Moringa oleifera* (L) during its growth under a salt constraint in hydroponics (Poster)**

Mr. Ahmed BOUMENJEL, Dr. Andreas Papadopoulos, Dr. Anastasia Pantera, Dr. Youssef AMMARI

### **Life cycle analysis - LCA**

#### **SUITABLE PRACTICES OF DESIGN AND REPAIRMENT FOR REDUCING THE ENVIRONMENTAL IMPACT OF SMARTPHONES (Flash Paper Presentation)**

Mr. Alberto Perula

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Mrs. R Dagili?t?, Mrs. I Minkevi?i?t?, Dr. Austra Dikšaityt?

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Prof. Agata Matarazzo, Dr. Eleonora Roberta Villari, Dr. Giovanna Spadaro, Dr. Alberto Tommaso Vazzano, Prof. Antonio Zerbo

#### **A case study on the application of Product Social Impact Assessment to the agri-food sector: ready-to-eat beetroot (Poster)**

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### **Environmental Biotechnology and Bioenergy**

#### **Prohibition of the cultivation of Genetically Modified Organisms in Cyprus through the attitudes of stakeholders (Flash Paper Presentation)**

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## **Production of added-value metabolites during growth of wild-type yeast strains on media composed of biodiesel-derived crude glycerol (Poster)**

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Mrs. Sofia Sarantou, Prof. Nikolaos G Stoforos, Mrs. Kalantzi Ourania, Dr. Panagiota Diamantopoulou, Prof. Seraphim Papanikolaou

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Dr. Adam Sulich, Prof. Katarzyna Piwowar-Sulej

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Dr. Dimitrios Vandarakis, Dr. Maria Salomidi, Dr. Vassilis Gerakaris, Dr. Yannis Issaris, Mr. Ioannis Kourliaftis, Mrs. Chara Agaoglou, Dr. Vassilis Kapsimalis, Dr. Ioannis Panagiotopoulos

### **Environmental Sustainability Indicators applied to Tourism Sector in Sicily (Flash Paper Presentation)**

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## **Ecology, environmental change and management**

### **GMO POLICIES FOR ENVIRONMENTAL PROTECTION IN THE ERA OF GENOME EDITING (Flash Paper Presentation)**

Dr. Dimitrios Argyropoulos, Dr. Charoula Psallida

### **GMOs Detection With Minimal Reaction Volume Real-Time PCR For Environmental Conservation (Flash Paper Presentation)**

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**The complex of natural enemies of invasive species *Tuta absoluta* (Meyrick, 1917) (Lepidoptera: Gelechiidae) on greenhouse-grown tomato crops conditions from southern Romania (Flash Paper Presentation)**

Dr. Maria IAMANDEI, Mr. Ioan ROSCA, Mr. Andrei CHIRILOAIE-PALADE, Mrs. Madalina Radulea

**Bioaccumulation of pharmaceuticals, pesticides and PFASs in mussel's visceral mass and haemolymph (Flash Paper Presentation)**

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**Circular Economy Shadows (Flash Paper Presentation)**

Dr. Adam Sulich, Dr. Letycja So?oduch-Pelc

**Histopathological alteration in gills and liver of *Cyprinus Carpio* after a short-term exposure to titanium dioxide nanoparticles (Flash Paper Presentation)**

Mrs. nazish Iftikhar, Prof. imran Hashmi

**BRIEF BIOLOGY OF *Sudanonautes africanus* (CRUSTACEA: BRACHYURA: EUBRACHYURA: POTAMOIDEA: PATAMONAUTIDAE: POTAMONAUTINAE), IN OSSIOМО RIVER, NIGER-DELTA, NIGERIA (Flash Paper Presentation)**

Dr. Osikemekha Anthony Anani, Prof. Olomukoro Ovie John

**Environmental assessment using acoustic complexity indicators (Flash Paper Presentation)**

Dr. Aggelos Tsaligopoulos, Dr. Chris Economou, Prof. Yiannis G. Matsinos

**Forage crops nitrogen use efficiency changes under drought conditions (Flash Paper Presentation)**

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**Triclosan-induced changes in earthworm *Eisenia fetida* life cycle under elevated temperature (Flash Paper Presentation)**

Dr. Diana Miškelyt?, Dr. J?rat? Žaltauskait?

**Effects of nitrogen fertilizer on photosynthetic light energy transfer and use in hybrid fescue under drought stress (Flash Paper Presentation)**

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**Challenges and market trends in the offshore aquaculture industry (Flash Paper Presentation)**

Mr. Panagiotis Evangelou, Prof. Dimitrios Lyridis

**PRO-ECOLOGICAL BUSINESS MODELS – CASE STUDY IN POLAND (Poster)**

Dr. Anna Maria KAMI?SKA, Prof. Ma?gorzata RUTKOWSKA

## **Real-scale Analysis of Riparian Vegetation Deformations and Flow Resistance of Vegetated Streams (Flash Paper Presentation)**

Dr. Giuseppe Francesco Cesare Lama

### **Energy technologies and sustainability**

#### **SUSTAINABLE HIGHWAYS: THE CHALLENGES OF THE FUTURE (Poster)**

Prof. Fotini Kehagia

#### **Feasibility of coupling hydrogen and methane production during sewage sludge digestion (Poster)**

Mr. Marcos Ellacuriaga, Mr. Alby Aguilar-Pesantes, Prof. Xiomar Gómez

#### **Decomposition products of 1,3,3,3-tetrafluoropropene and perfluoro-(3-methylbutan-2-one) gas mixtures in medium voltage electrical switchgear. Alternatives to SF6 (Flash Paper Presentation)**

Dr. María Luz Alonso, Prof. Rosa María Alosno, Ms. Ane Espinazo, Prof. J. Ignacio Lombraña, Dr. Jesús Izcara, Mr. Josu Izagirre

### **CLIMPACT: National Network for Climate Change and its impacts**

#### **Holocene record of palaeoclimatic impact in Epanomi coastal lagoon basin, Thermaikos Gulf, North Greece (Flash Paper Presentation)**

Dr. Paraskevi Chantzi, Ms. Eleni Papadimitriou, Prof. Eleni Aidona, Prof. Nikos Kantiranis, Ms. Sofia Doani, Prof. Konstantinos Vouvalidis, Prof. Konstantinos Almpanakis

#### **Influence of fires on atmospheric composition over Greece as seen by TROPOMI S5P (Flash Paper Presentation)**

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#### **CO2 and NO2 distributions over Greece as seen by OCO-2 and TROPOMI (Flash Paper Presentation)**

Mr. Nikolaos Gialesakis, Dr. Nikos Daskalakis, Prof. Maria Kanakidou

#### **System-Dynamic models for groundwater management in SW Messinia, under different climatic scenarios (Flash Paper Presentation)**

Dr. Erasmia Kastanidi, Mr. Giorgos Maneas, Dr. Ioannis Panagopoulos, Dr. Peter Viaene, Dr. Jean-Luc De Kok, Dr. Hakan Berg, Dr. Stefano Manzoni, Dr. Dimitris Velaoras, Dr. Aristomenis P. Karageorgis

#### **Methane distribution over Greece as derived from Sentinel-5P TROPOMI data (Flash Paper Presentation)**

Mrs. IOANNA EVANGELOU, Mr. Nikolaos Gialesakis, Dr. Nikos Daskalakis, Prof. Maria Kanakidou

## **Advanced Oxidation Processes**

### **Magnetite-decorated catalytic membrane reactor for the continuous-flow CWPO of micropollutants (Flash Paper Presentation)**

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**Kinetics study of the MO adsorption and photocatalytic degradation using an effectively engineered HF photocatalyst (Flash Paper Presentation)**

Mr. George Theodorakopoulos, Dr. Fotios Katsaros, Dr. Sergios Papageorgiou, Dr. Georgios Romanos

## **Aqueous wastewater treatment with aluminum oxide, silica, and alginate (Flash Paper Presentation)**

Mrs. Anifat Adenike Bankole, Prof. Thies Thiemann

## **Functionalized iron oxide nanocomposite ultrafiltration membranes for water-in-oil emulsion separation (Flash Paper Presentation)**

Dr. Vijay S Wadi, Mr. Mariam Ouda, Prof. Vincenzo Naddeo, Dr. Fawzi Banat, Prof. ?Shadi Wajih Hasan

## **Photocatalytic degradation of magenta effluent from the printing industry with composite catalyst (Flash Paper Presentation)**

Dr. Djurdja Kerkez, Dr. Milena Be?eli?-Tomin, Dr. Vesna Gvoi?, Ms. Aleksandra Kuli? Mandi?, Dr. Anita Leovac Ma?erak, Dr. Dragana Tomaševi? Pilipovi?, Dr. Djurdja Pucar Milidrag

## **Evaluation of real bilge water toxic effects on methanogenic activity (Flash Paper Presentation)**

Dr. G Gatidou, Mr. C G Samanides, Prof. Ioannis Vyrides

## **APOC technology as an eco-innovative decentralized sanitation system for wastewater treatment and reuse facilities in the rural locality of Bent Saidane-NE Tunisia (Flash Paper Presentation)**

Dr. Safa Chaabane, Mr. Anis Ghattassi, Ms. Khitem Mensi, Mr. Fadhel M'hiri, Dr. Konstantinos V Plakas

## **Letrozole and tamoxifen in municipal wastewater and their photodegradation in ultraviolet (UV) treatment (Flash Paper Presentation)**

Mrs. Olga-Sofia Alitalo, Mrs. Anna-Lea Rantalainen, Mr. Jukka Pellinen

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## **Evaluation of environmental impact assessment factors in maritime industry. (Flash Paper Presentation)**

Mr. MICHAEL BOVIATSIS, Prof. George Vlachos, Mr. G Daniil

## **Air pollution**

## **Evaluation of atmospheric pollutants dispersion using CFD numerical models (Flash Paper Presentation)**

Mr. Víctor Manuel Fernández Pacheco, Ms. Elena Antuña Yudego, Prof. María José Suárez López, Dr. Juan Luis Carús Candás, Prof. Eduardo Álvarez Álvarez

## **CO abatement via Ir-based catalysts: effect of the support nature and preparation method on catalytic activity and stability (Poster)**

Mrs. C. Drosou, Ms. T Fountouli, Prof. Antonios Stratakis, Mr. N D Charisiou, Prof. M A Goula, Prof. I V Yentekakis

## **The limitation of the methane (CH4) emission in the Upper Silesia Coal Basin as a result of the Polish Mining Group closing program. (Flash Paper Presentation)**

Mr. Marcin Dreger

## **Performance of a Miniaturized, Lightweight, and Cost-effective Parallel-Plate Differential Mobility Analyzer (Flash Paper Presentation)**

Mrs. Nikoleta Lekaki, Mr. Agapios Agapiou, Mr. Costi Marinos, Prof. George Biskos, Dr. Anne Maisser

## **Climate change mitigation and adaptation**

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## **Contribution to low-carbon building industry and improved durability through incorporation of waste into cement composites (Flash Paper Presentation)**

Prof. Adriana Estokova, Mr. Robert Figmig, Dr. Eva Singovszka

## **Properties of dry hydraulic road binder mixture with additional component of cement bypass dust (Flash Paper Presentation)**

Prof. Nadezda Stevulova, Dr. Jozef Junak, Dr. Julius Strigac, Dr. Eva Terpakova

## **Municipal solid waste management in island communities: existing experience and implementation possibilities for South Aegean Islands (Flash Paper Presentation)**

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## **Material flow analysis applied to a waste treatment plant in Lombardy (Italy) (Flash Paper Presentation)**

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## **Performance evaluation of flue gas cured calcium rich fly ash based building blocks (Flash Paper Presentation)**

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Mr. Panagiotis Fotios Chatzimaliakas, Prof. Stergios Vakalis

## **Soil and groundwater contamination and remediation**

### **Fire-induced oxidation of Cr(III) in serpentine soils (Poster)**

Dr. F. Botsoi, Ms. Sofia Vitzilaiou, Mr. Giuseppe Guerra, Ms. Pulcheria Valla, Dr. Efstratios Kelepertzis, Prof. MANOS DASSENAKIS, Prof. Ariadne Argyraki

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## **Biodegradation of anthracene by an Antarctic fungal strain a member of genus Alternaria (Flash Paper Presentation)**

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Prof. Mohammad S Al-suwaifyan

## **Groundwater Flow Dynamics in Shallow Coastal Plain Sands Aquifer, Abesan Area, Eastern Dahomey Basin, Southwestern Nigeria. (Flash Paper Presentation)**

Ms. Anne Ayomiposi Joseph

## **Energy technologies and sustainability**

### **SUSTAINABLE HIGHWAYS: THE CHALLENGES OF THE FUTURE (Poster)**

Prof. Fotini Kehagia

### **Feasibility of coupling hydrogen and methane production during sewage sludge digestion (Poster)**

Mr. Marcos Ellacuriaga, Mr. Alby Aguilar-Pesantes, Prof. Xiomar Gómez

### **Decomposition products of 1,3,3,3-tetrafluoropropene and perfluoro-(3-methylbutan-2-one) gas mixtures in medium voltage electrical switchgear. Alternatives to SF6 (Flash Paper Presentation)**

Dr. María Luz Alonso, Prof. Rosa María Alosno, Ms. Ane Espinazo, Prof. J. Ignacio Lombraña, Dr. Jesús Izcara, Mr. Josu Izagirre

## **Heavy metals in the environment**

### **Heavy metals in soil, sediments, and water from Lake Ohrid catchment (Albania) (Flash Paper Presentation)**

Prof. Aida Bani, Prof. Seit Shallari, Dr. Irena Duka

### **Changes of Photosynthetic Performance of Brassica napus Affecting Cadmium Phytoextraction Performance under Elevated Temperature, CO<sub>2</sub> and Drought (Flash Paper Presentation)**

Dr. Austra Dikšaityt?, Dr. J?rat? Žaltauskait?, Ms. Inesa Kniuipyty?, Dr. Irena Januškaitien?, Prof. Romualdas Juknys

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## **Coupling Pb and Zn bioaccessibility with sequential and HNO<sub>3</sub> extraction in soil from the industrial area of Volos, Greece (Flash Paper Presentation)**

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Dr. Dragana Tomaševi? Pilipovi?, Ms. Jovana Joki? Govedarica, Dr. Djurdja Kerkez, Dr. Anita Leovac Ma?erak, Dr. Nataša Slijep?evi?, Dr. Vesna Gvoi?, Dr. Milena Be?eli?-Tomin

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Dr. Natalia Villota, Dr. Jose Maria Lomas, Ms. Cristian Ferreiro, Dr. Luis Miguel Camarero, Prof. Jose Ignacio Lombraña

## **Valorisation of polyolefins into magnetic carbon nanotubes: application as catalysts in wet peroxide oxidation of paracetamol (Poster)**

Mr. Lucas Fenato Sanches, Mr. Adriano Santos Silva, Ms. Fernanda Fontana Roman, Dr. Jose Luis Diaz de Tuesta, Prof. Fernando Alves da Silva, Prof. Helder Teixeira Gomes

## **TiO<sub>2</sub>/Fe<sub>2</sub>O<sub>3</sub> based Composites for Solar-driven Photocatalytic Degradation of Amoxicillin (Poster)**

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## **Magnetic CoFe<sub>2</sub>O<sub>4</sub>@carbon yolk-shell nanoparticles as catalysts for the catalytic wet peroxide of paracetamol (Flash Paper Presentation)**

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### **Antagonists of *Erwinia amylovora* isolates from fire blight diseased fruit trees in Georgia (Poster)**

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## **Biowaste**

### **Enzymatic hydrolysis followed by alcoholic fermentation of prickly pears (*Opuntia ficus-indica* L.) cladodes and fruits using *Saccharomyces cerevisiae* E1A (Poster)**

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### **Monitoring of the leafhopper *Scaphoideus titanus* and symptoms associated with yellows diseases in vineyards from the Moldova Region, Romania (Poster)**

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**Analysis of the hydrologic conditions during the flood event occurred in Mandra, Greece,  
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