

DCE Webinar on Covid 19 and the environment

on **Thursday 18 November, 15:00 Brussels time**

Zoom link:

<https://authgr.zoom.us/j/95938633588>

Program

15:00 – 15:15 **Welcome address and Introductory notes**

- **Professor Ioannis Katsoyiannis**, Chair of The Division of Chemistry and the Environment of the European Chemical Society, *Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece.*
- **Professor Roland Kallenborn**, Board member of the Division of Chemistry and the Environment of the European Chemical Society, *Faculty of Chemistry, Biotechnology and Food Sciences (IKBM), Norwegian University of Life Sciences (NMBU), Norway.*

15:15 – 15:45: **Contribution of Wastewater Based Epidemiology (WBE) to community COVID-19 surveillance**

- **Professor Thodoris Karapantsios**, Director, *Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece.*



Professor Karapantsios is a Chemical Engineer with graduate and post-graduate studies in Greece, USA, and the Netherlands. He is a Professor and Director of the Chemical and Environmental Technology Lab in the Faculty of Chemistry at the Aristotle University of Thessaloniki (AUTH), Greece. His research Interests are in the field of Transport Phenomena in Multiphase Systems with application to water and waste-water monitoring and treatment. As of March 2019 he is coordinating the AUTH wastewater-based epidemiology group, with scientists from 7 different departments, which determines the SARS-CoV-2 load in daily sewage samples of Thessaloniki. He has participated in more than 90 European, national and industrial research projects, in 66 as coordinator. He is author and co-author in more than 160 publications in peer reviewed Science Journals. He participated in more than 250 international scientific conferences. He is a co-holder of 3 European patents and 2 Greek patents. He has participated in 4 multinational NASA/ESA zero-gravity experiments flown in space shuttle missions and he has been the principle investigator and head of the flying team in 11 ESA parabolic flight campaigns acquiring more than 4.5 hours in microgravity conditions. He has been the General Secretary and Vice-President of the European Low Gravity Research Association (2005-2009), the Greek delegate in the ESA Program Board on Human Spaceflight and Exploration (2010- 2020) and currently he is the Greek delegate in the EC-Digital-Industry-Space Programme Committee on Space related matters. (2021-)

15:45 – 16:15: **Aerosol transmission of human pathogens**

- **Dr. Teresa Moreno**, Director, *Institute of Environmental Assessment and Water Research (IDAEA), Spanish Research Council (CSIC), Spain.*



Teresa Moreno trained as a geologist (Universidad Complutense Madrid, 1992), and worked in the Spanish Geological Survey before completing her doctoral thesis at Cardiff University (UK) in 1999. After a short Fulbright Scholarship in New York she worked in the UK as a postdoc researcher with toxicologists funded by the British Medical Research on the physical and chemical characterization of atmospheric particulate matter and its health effects. She has worked at the Spanish Research Council (CSIC) as an atmospheric geoscientist since 2004. She has published over 160 articles in SCI journals and contributed to more than 30 books (4 as an editor. Teresa has participated in more than 60 competitive projects, 15 of them as main researcher. In recent years she has co-ordinated and led the European IMPROVE LIFE project (2014-2018), and the nationally funded METRO and BUSAIR projects (2013-2015, 2016-2019) on the improvement of air quality in the rail subway and on public buses. Currently she is the Director of the Institute of Environmental Assessment and Water Research (IDAEA) since May 2018, and coordinates the module of “Transmission and prevention” in the Master’s Degree in Pandemics, Global Health and COVID19 organized by the Menéndez Pelayo International University (UIMP) and the Spanish National Research Council (CSIC).

16:15 – 16:45: Changes in black carbon emissions over Europe and China due to COVID-19.

- **Dr. Nikolaos Evangeliou**, Senior Scientist, NILU, Atmosphere and Climate Department, Norway.



Dr. Nikolaos Evangeliou is a Senior Scientist at NILU's Atmospheric and Climate Research department (ATMOS). He has a PhD in Chemistry and has been working previously with radiochemical analyses of environmental samples followed by nuclear measurements. Since 2014, when he joined NILU, he has been working with atmospheric dispersion modelling of conventional and radionuclide substances emitted after nuclear accidents and their impacts on human and non-human biota. He currently works with source emission optimization of aerosols and gases using Bayesian inversion tools.

16:45 -17:15: Questions, Discussion and Concluding Remarks