



**CEST 2017**

# 15<sup>th</sup> International Conference on Environmental Science and Technology

31<sup>st</sup> August to 2<sup>nd</sup> September 2017, Rhodes Island, Greece

[cest.gnest.org](http://cest.gnest.org)



## Newsletter #2 January 2017

### About

The International Conference on Environmental Science and Technology (CEST2017) will be held in Rhodes Island (Greece), from 31<sup>st</sup> August to 2<sup>nd</sup> September 2017. CEST2017 is the 15<sup>th</sup> event in a series of successful scientific meetings, which are being organized biennially since 1989. It is the largest environmental conference in Greece and has grown into a major international scientific event bringing together over 400 delegates from 60 different countries.

The main aim of the conference is the presentation of state-of-the art research and innovative technologies to address local and international critical environmental issues. A wide range of topics are presented while addressing the new opportunities for the emerging science-policy interface promoting the dialogue between the scientific and policy-making communities.

CEST2017 is supported by the University of the Aegean (Greece), together with the University of Salerno (Italy) and the Imperial College London (UK). The main organizer is the multi-disciplinary Global NEST (Network of Environmental Science and Technology); an international scientific movement that has been successfully developing for the last 29 years with members from more than 60 countries. The conference is held under the auspices of the Municipality of Rhodes (Greece).

More info as well as registration and submission of papers are available at <http://cest.gnest.org>. The full paper submission deadline the **15<sup>th</sup> March 2017**.

### Publication of papers

All the papers presented in CEST2017 will be submitted for review in selected journals. [14 peer-reviewed journals](#) have agreed to publish special issues with papers from the conference.



**PLATINUM SPONSOR**



Prince Sultan Bin Abdulaziz  
International Prize for Water

**SILVER SPONSOR**



**SPONSOR**



### Conference chairmen

- Lekkas Demetris F.**  
*University of the Aegean, Greece*
- Belgiorno Vincenzo**  
*University of Salerno, Italy*
- Voulvoulis Nick,**  
*Imperial College London, UK*

### Programme Committee

- Ballesteros F. Jr.**  
*University of the Philippines Diliman, Philippines*
- Baur F.**  
*IZES, Germany*
- Dermatas D.**  
*National Technical University of Athens, Greece*
- Flocas H.**  
*National and Kapodistrian University of Athens, Greece*
- Jiang J.Q.**  
*Glasgow Caledonian University, UK*
- Komilis D.**  
*Democritus University of Thrace, Greece*
- Lasaridi K.**  
*Harokopio University of Athens, Greece*
- Lekkas T.D.**  
*University of the Aegean, Greece*
- Lyberatos G.**  
*National and Kapodistrian University of Athens, Greece*
- Naddeo V.**  
*University of Salerno, Italy*
- Panagiotakis I.**  
*ENYDRON, Environmental Protection Services, Greece*
- Papadopoulou M.**  
*National Technical University of Athens, Greece*
- Pechlivanidis I.**  
*SMHI, Sweden*
- San Miguel G.**  
*Universidad Politecnica de Madrid, Spain*
- Thomaidis N.**  
*University of Athens, Greece*
- Vagiona D.**  
*Aristotle University of Thessaloniki, Greece*

### Calendar of main events

<b>Full papers submission deadline</b>	<b>15 March 2017</b>
<b>Final acceptance</b>	<b>30 April 2017</b>
<b>Draft program</b>	<b>30<sup>th</sup> May 2017</b>

### Fees

	<b>Until 01/06/2017</b>	<b>After 01/06/2017</b>
<b>Authors/participants</b>	450	500
<b>Students</b>	300	300
<b>Companies/industries</b>	550	600
<b>Low income countries*</b>	300	300

\*This fee is applicable only to affiliates to public bodies (Ministries, Municipalities, Universities, Agencies, etc.) from the Countries included in the relevant list (Source: [World Bank Developing Nations](#))

## Invited speakers

**Hagit Messer, Tel Aviv University, Israel**



Hagit Messer received the Ph.D. in Electrical Engineering from Tel Aviv University (TAU), ISRAEL, and after a post-doctoral fellowship at Yale University, she joined the faculty of Engineering at Tel Aviv University in 1986, where she is a Professor of Electrical Engineering. On 2000-3 she has been on leave from TAU, serving as the *Chief Scientist* at the Ministry of Science. After returning to TAU she was the head of the Porter school of environmental studies (2004-6), and the *Vice President for Research and Development* 2006-8. Then, she has been the *President* of the Open University, and from Oct. 2013 till January 2016 she has served as the Vice Chair of the Council of Higher Education, Israel. On 2016 she has also become a co-founder of ClimaCell. Prof. Messer, Fellow of the IEEE, is an expert in statistical signal processing with applications to source localization, communication and environmental monitoring. She has published numerous journal and conference papers, and has supervised tens of graduate students. She has been a member of Technical committees of the Signal Processing society since 1993 and on the editorial boards of the IEEE Transactions on Signal Processing, the IEEE Signal Processing Letters, the IEEE journal of selected topics in signal processing (J-STSP), and on the Overview Editorial Board of the Signal Processing Society journals.

**Vincenzo Naddeo, University of Salerno, Italy**



From 2014 Dr Naddeo is associate professor in Sanitary Environmental Engineering. He is expert of the European Union from 2007 in the seventh Framework Programme for Research (FP7) first and now in Horizon 2020. He is an expert in advanced physical/chemical treatment processes in general, with research interests in the behaviour emerging contaminants and its removal from water and wastewater, and in the development of ultrasound-based processes for removal of organic pollutants, pathogens, and other contaminants from solutions. For the past 5 years, an additional research focus of Dr. Naddeo work has been on environmental odour characterization and control and on environmental impact assessment (EIA). In addition to the topics noted above, Dr. Naddeo has published research on MBRs, control of fouling in wastewater ultrafiltration, conventional water/wastewater disinfection, monitoring of river water quality, strategic environmental assessment (SEA) and control of NOM in drinking water. Dr. Naddeo has published almost hundred refereed publications in ISI journals, congress proceedings and written an international handbook on Odour Impact Assessment (Wiley, 2013); he have 4 patents on water and wastewater treatments by sonolysis and 1 patent on novel electronic nose (e.Nose).

**Raúl Muñoz, Valladolid University, Spain**



Dr. Muñoz holds a PhD in Environmental Biotechnology from Lund University (2005). Raúl is Associate Professor of the Department of Chemical Engineering and Environmental Technology at the University of Valladolid. His main fields of expertise are biological gas treatment, biogas upgrading and wastewater treatment in algal-bacterial photobioreactors. Over the last 10 years, Raúl has published more than 129 ISI papers (H index = 33), 20 book chapters, 101 International Conference proceedings (64 oral platforms + 40 posters)+ 10 Invited keynotes/Plenary Lectures and supervised 11 PhD theses and 27 Master theses.

## Dionysios (Dion) D. Dionysiou, University of Cincinnati, Ohio, USA



Professor Dionysiou was born on the Island of Cyprus. He is currently a UNESCO Chair Professor on “Water Access and Sustainability” and a Herman Schneider Professor of Environmental Engineering at the University of Cincinnati where he teaches courses on drinking water quality and treatment, advanced unit operations for water treatment, advanced oxidation technologies, and physical-chemical processes for water quality control. His research interests include treatment of water contaminated by harmful algal blooms with conventional and advanced technologies, advanced technologies for water treatment, advanced oxidation technologies, transition metal-based chemical oxidation, and nanotechnology. Dr. Dionysiou is the author or co-author of over 300 refereed journal publications, over 90 conference proceedings, 29 book chapter publications, 24 editorials, and more than 550 presentations. He has edited/co-edited 6 books on water quality, water reuse, ferrates, and photocatalysis. He is currently co-editing a book on harmful algal blooms. Dr. Dionysiou’s work received over 13,000 citations with an H factor of 62. He has currently numerous national and international collaborations. Dr. Dionysiou has received funding from NSF, US EPA, NASA, NOAA/CICEET, USGS, USDA, Ohio Sea Grant, USAID, Cyprus Research Foundation, and DuPont. He is currently one of the editors of *Chemical Engineering Journal* (Elsevier), Editor of the *Journal of Advanced Oxidation Technologies*, and Special Issue Editor and Associate Editor for the *Journal of Environmental Engineering* (ASCE). He is a member of the Editorial Boards of more than ten other journals. He has previously served as Associate Editor of *Water Environment Research* (WEF) (2006-2011) and as member of the Editorial Board of *Environmental Progress* (now renamed as *Environmental Progress and Sustainable Energy*) (AIChE) (2003-2009). Dr. Dionysiou is a fellow of the American Chemical Society (ACS). He is currently chair-elect of the Environmental Chemistry Division of ACS and is a member of many committees of several professional societies (i.e., ACS, AEESP, AWWA, WEF, IWA). Dr. Dionysiou has been featured in several international symposia, professional meetings, and scientific publications, including an interview on “Cleaning up water” published on July 5, 2011 in the Chemistry World magazine of the Royal Society of Chemistry.

Web Page 1: [http://ceas.uc.edu/bcee/Dr\\_Dion\\_lab.html](http://ceas.uc.edu/bcee/Dr_Dion_lab.html)

Web Page 2: [http://ceas.uc.edu/bcee/Dr\\_Dionysios\\_Dionysiou.html](http://ceas.uc.edu/bcee/Dr_Dionysios_Dionysiou.html)

## George Kallos, National and Kapodistrian University of Athens, Greece



Dr. George Kallos is Professor at the University of Athens, Department of Physics. He has also the position of Adjunct Professor at University of Connecticut/ Civil and Environmental Engineering (since 2013). He leads the Atmospheric Modeling and Weather Forecasting Group -AM&WFG (10 post-doc and PhD students). He has 36 years of experience in atmospheric physics and meteorology working at the University of Athens, Georgia Institute of Technology, Colorado State University, SUNY/ASRC and National Center for Atmospheric Research (NCAR). Dr Kallos has 132 publications in scientific journals, more than 350 presentations and publications in conference proceedings (in more than 75 he was invited speaker), 11 contributions in books and more than 400 other publications in subjects related to atmospheric physics and chemistry. Most of them are related to atmospheric modeling. His published work has more than 5000 citations from others according to Web of Science. He has participated in 85 projects (in 70 of them as coordinator) and he has guided 11 PhDs. Currently he has 5 PhD students. He served as Associate Editor for the journals “Environmental Fluid Mechanics” and “Global Ocean Systems”. Currently he serves as Associate Editor for the “Advances in Meteorology” and “Journal of Aerospace Operations”. He was awarded the International Union of Air Pollution Prevention Association – IUAPPA award for his work on Long Range Transport and air quality work in the Mediterranean Region (2004). His current research activities are related to aerosol-radiation-cloud-precipitation interactions, dust and sea salt modeling, climatic and sea-state model development and applications. The AM&WFG maintains the weather, dust, air quality and wave forecasting systems of the web <http://forecast.uoa.gr> that has more than 400.000 visitors per month (since 1997).

# Big Data Analysis in Earth Sciences

## EarthBiAs2017

28<sup>th</sup> August to 1<sup>st</sup> September 2017  
Rhodes Island, Greece



Organized by:  
Global NEST



University of the Aegean  
Department of Environment

Department of Information and Communication Systems Engineering

### 3<sup>rd</sup> International Summer School on Big Data Analysis in Earth Sciences EarthBiAs2017 28<sup>th</sup> August to 1<sup>st</sup> September 2017

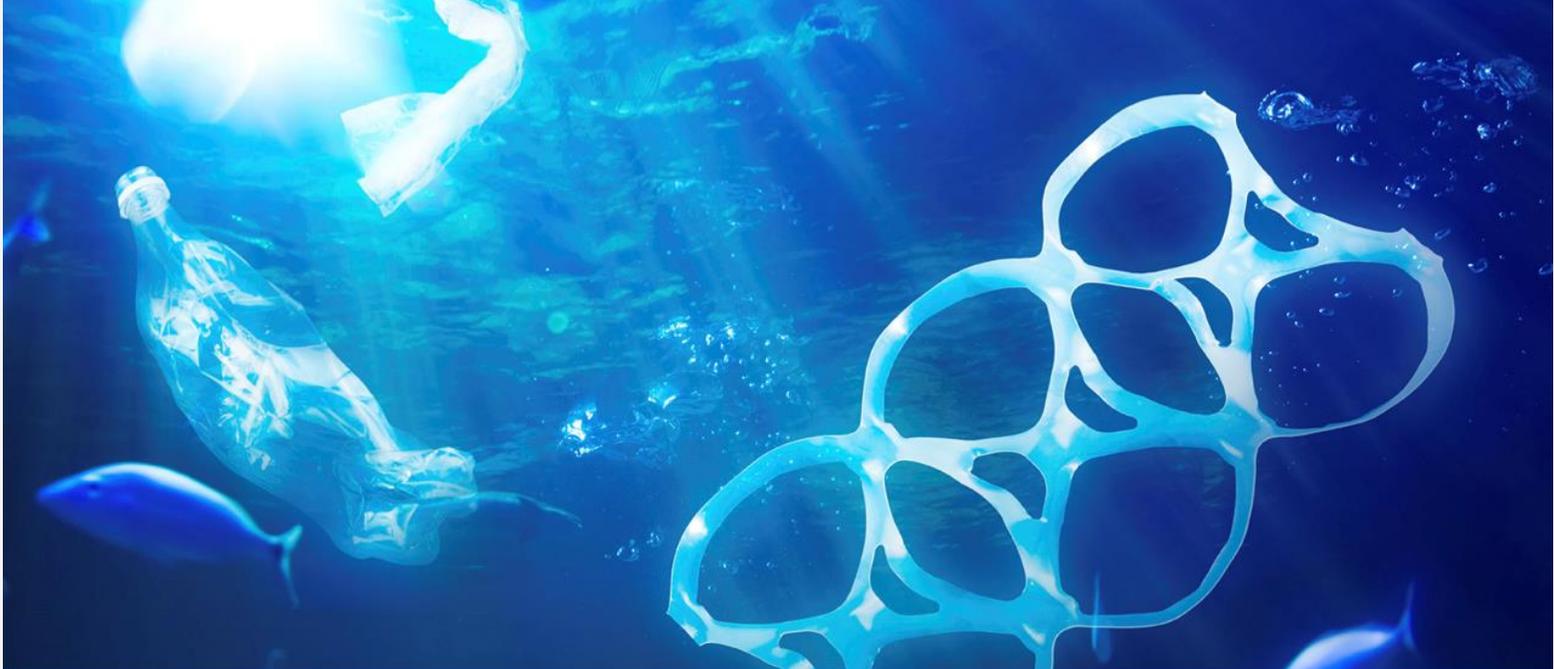
**EarthBiAs2017** is organised by the *Department of Environment and the Department of Information and Communication Systems Engineering* of the *University of the Aegean*, in collaboration with *Global Network for Environmental Science and Technology (GNEST)*. It is an international Summer School on Big Data Analysis in Earth Sciences and will be held in Rhodes from 28<sup>th</sup> of August to 1<sup>st</sup> of September 2017, as a satellite event of CEST2017.

The individual sections derived from planning lectures, workshops and round tables, are related to big data systems, to flexible and dynamic structures which can meet future requirements, to sensors and software, to statistical methods and to their implementation for the analysis and simulation of environmental systems. Emphasis shall be given to practical applications and ICT tools that aid analysts towards gaining useful knowledge of their data. Participants will join forces in order to implement a real-world big data analysis project, in order to strengthen their skills.

The topics covered by the Summer School are:

- Understanding the specific characteristics of Big Data
- Database Systems
- Machine Learning and AI
- Data and Web Mining
- Mathematical models for data mining
- Data management and analysis
- New technologies and softwares
- Application of all the above in simulation examples of different environmental systems

Application form and registration will be available shortly. In case you wish to express your interest you can contact Dr Charalampos Alexopoulos ([alexop@aegean.gr](mailto:alexop@aegean.gr)) or Dr Eleftheria Klontza ([eleftheria.klontza@aegean.gr](mailto:eleftheria.klontza@aegean.gr)).



**CEST 2017**

# 15<sup>th</sup> International Conference on Environmental Science and Technology

31<sup>st</sup> August to 2<sup>nd</sup> September 2017, Rhodes Island, Greece

[cest.gnest.org](http://cest.gnest.org)



## Contact us:

Phone: +30 210 6492451-2

FAX: +30 210 6492499

email: [cest@gnest.org](mailto:cest@gnest.org),

#CEST\_RODOS



LIKE US ON FACEBOOK



FOLLOW US ON TWITTER

Under the  
auspices of:



Supported by:

