National Technical University of Athens

GLOBAL WtERT COUNCIL

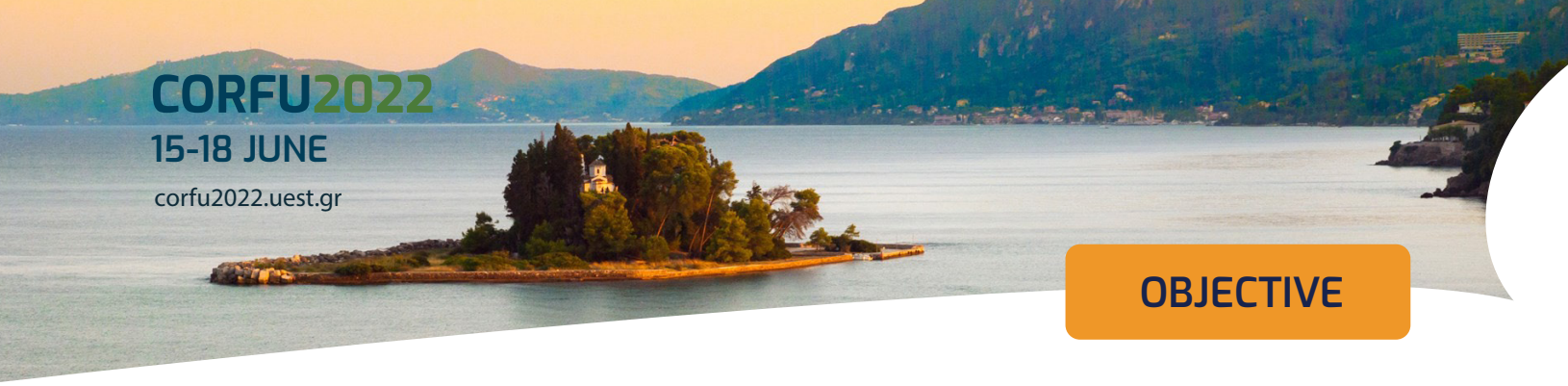
CORFU2022

15-18 JUNE

corfu2022.uest.gr

9th International Conference on Sustainable Solid Waste Management

15-18 JUNE 2022



CORFU2022
15-18 JUNE
corfu2022.uest.gr

OBJECTIVE

The Conference aims to address the significant issue of sustainable solid waste management through the promotion of safe practices & effective technologies. The Conference focuses mainly on modern solid waste technologies. It aims to stimulate the interest of scientists and citizens and inform them about the latest developments in the field of municipal solid waste management. **Separation at source, Biological Treatment, the treatment at central facilities, waste prevention, biowaste utilization, recycling promotion, Waste-to-energy technologies & energy recovery, smart technologies for waste management, sludge management, agricultural and livestock waste, management of specific waste streams** (construction & demolition waste, waste from electrical and electronic equipment, etc.), biotechnology, Best Available techniques, symbiosis networks, energy consumption and saving, carbon footprint and water footprint, zero-waste initiatives, plastics and bioplastics, marine litter constitute main conference subjects. Special attention will be drawn to the valorization prospects & the products from solid waste, such as: biofuels, compost, materials, etc. It is also our ambition to strengthen the link of the applied research with industry. Hazardous waste & Household hazardous waste also constitute target area of the conference.

Emphasis will be placed on **circular economy** in all key action areas **(production, consumption, waste management, secondary raw materials, innovation, investment & monitoring) and all priority sectors (food waste, plastics, biomass and bio-based-products, construction & demolition waste, critical raw materials), as well as waste management issues and resource efficiency in islands and generally isolated and remote areas.**

The Conference will provide an opportunity to bring together scientists & professionals from government departments, industries, Municipalities, private institutions, research & education institutions, being a forum for the exchange of the most recent ideas, techniques & experiences in all areas of solid waste management. A special full one-day workshop will also focus on representatives of local authorities and municipalities in order to promote integrated solid waste management schemes.

CONFERENCE TOPICS

Topics of interest include but are not limited to:

- Circular economy
- Source separation schemes for solid waste
- Biological treatment techniques (composting & anaerobic digestion)
- Waste-to-energy technologies & Energy from Waste (biomass, oil sludge, syngas, etc.)
- Recycling & Resources Recovery
- EU policies and strategies for solid waste management
- Solid waste prevention techniques
- Household solid waste treatment technologies
- Socio-economic issues related to solid waste management
- Household solid waste collection techniques
- Integrated management in islands & other isolated areas
- Characterization of waste residues
- Smart technologies & Decision support tools in the waste management field
- Symbiosis and Network
- Waste valorisation
- Carbon & water footprint
- Water circular economy
- Recovery of materials from wastewater & sludge
- Energy saving
- Energy Efficiency and Energy Saving Potential in Industry
- Food Economy, Policy and Culture
- Environmental assessment and management in the food Industry
- Environmental footprint analysis in the food sector
- Energy-land-food-water nexus
- LCA as a decision support tool in policy making in the food Industry
- Food waste management and bio-economy
- Circular economy and resource efficiency in the food industry
- Business models and investment for tomorrow's food systems
- Marine Litter
- Hazardous Waste
- Biorefineries
- Biotechnology
- Management of specific waste streams (construction & demolition waste, WEEE, etc)
- Sludge management
- Agricultural and/or livestock waste
- Flows of multi-sized (macro-, micro- and nano-) plastic waste, including current management strategies
- Toxicity and eco-toxicity of multi-sized plastic waste particles (especially at long-term / high exposure)
- Eco-efficient solutions to reduce plastic waste's impacts
- Plastic waste environmental impacts: assessment and prediction
- Multi-actors approaches and stakeholders behaviour related to plastic waste such as consumer perception, policy makers awareness, industrial lobbying, legislation and R&D investments etc

SCIENTIFIC COMMITTEE

Maria Loizidou, National Technical University of Athens, Chair

Abdul-Sattar Nizami, King Abdulaziz University
Adam Smoliński, Central Mining Institute
Adela Galvin, University of Cordoba
Agapios Agapiou, University of Cyprus
Ahmed El-Gendy, American University in Cairo
Aleksandra Djukic-Vukovic, University of Belgrade
Alexandra Ribeiro, Universidade Nova de Lisboa
Amane Jada, IS2M-CNRS
Anastasia Zabaniotou, Aristotle University of Thessaloniki
Anastasios Zouboulis, Aristotle University of Thessaloniki
Andrea Capodaglio, University of Pavia
Ange Nzihou, Ecole des Mines d'Albi
Antonis Zorpas, Open University of Cyprus
Apostolos Koutinas, Agricaltural University of Athens
Apostolos Vlyssides, Jaypee University of Information Technology
Barbara Ruffino, Politecnico di Torino
Carlos Ariel Cardona Alzate, Universidad Nacional de Colombia sede Manizales
Carol S.K. Lin, City University of Hong Kong
Celia Dias-Ferreira, Universidade Aberta & CERNAS - Research Center on Natural Resources, Environment and Society
Chew-Tin Lee, University Technology of Malaysia
Christopher Cheeseman, Imperial College
Claudio Dilaconi, Consiglio Nazionale delle Ricerche (CNR)
Costas Velis, University of Leeds
Costas Costa, Cyprus University of Technology
Costas Velis, University of Leeds
Cristobal Noe Aguilar Gonzalez, Universidad Autónoma de Coahuila
Daniel Tsang, The Hong Kong Polytechnic University
David Bolzonella, University of Verona
David Newman, World Biogas Association
Dimitrios Kaliampakos, National Technical University of Athens
Dimitrios Komilis, Democritus University of Thrace
Dimitrios Malamis, National Technical University of Athens
Dimosthenis Sarigiannis, Aristotle University of Thessaloniki
Di Wang Technische, Universität Braunschweig
Dolores Hidalgo Barrio, CARTIF Technology Centre
Evina Katsou, Brunel
Ezio Ranieri, University of Bari
Filiz Dilek, Middle East Technical University
Francesco Fatone, Marche Polytechnic University
Georgia Labuto, Universidade Federal de Sao Paulo
Gerasimos Lyberatos, National Technical University of Athens
Giuseppe Mancini, University of Catania
Heribert Insam, University of Innsbruck
H.J.H. (Jos) Brouwer, Eindhoven University of Technology
Ioannis Anastopoulos, University of Ioannina
Ioannis Skiadas, Technical University of Denmark
Irini Angelidaki, Technical University of Denmark
Isam Janajreh, Masdar Institute
Jale Yanik, Ege University
Jian Li Hao, Xi'an Jiaotong-Liverpool University
Joan Dosta, University of Barcelona
Joseph Patrick Hettiaratchi, University of Calgary
Juan Antonio Baeza Labat, Universitat Autonoma de Barcelona
Jun Wang, Jiangsu University of Science and Technology
Katarzyna Chojnacka, Wrocław University of Technology
Katherine-Joanne Haralambous, National Technical University of Athens
Katia Lasaridi, Harokopio University
Konstantinos Aravosis, National Technical University of Athens
Konstantinos Moustakas, National Technical University of Athens
Lidia Lombardi, Università degli Studi Niccolò Cusano - Telematica Roma
Lionel Limousy, Université de Haute-Alsace
Luciano Matos Queiroz, University of Bahia
Luis Pérez Villarejo, Universidad de Jaén
Marco Baratieri, Free University of Bolzano
Maria Teresa L. Santos, Instituto Superior de Engenharia de Lisboa
Maria Zachariou-Dodou, Institute of Environment & Sustainable Development
Mauro Majone, Sapienza University of Rome
Meisam Tabatabaei, Universiti Malaysia Terengganu
Mejdi Jeguirim, Université de Haute-Alsace
Michalis Kornaros, University of Patras
Mohammad Rehan, King Abdulaziz University
Nathalie Gontard, French National Institute for Agricultural Research
Nick Voulvoulis, Imperial College
Nickolas Themelis, Columbia University
Nikolaos Mousiopoulos, Aristotle University of Thessaloniki
Nikolaos Tzortzakis, Cyprus University of Technology
Panagiotis Kougias, Hellenic Agricultural Organisation- DEMETER
Pascale Champagne, National Research Council of Canada
Paul Christakopoulos, Lulea University of Technology
Petros Gikas, Technical University of Crete
Rafael Luque, University of Cordoba
Rémy Bayard, DEEP - INSA Lyon - Université de Lyon
Ronghou Liu, Shanghai Jiao Tong University
Simos Malamis, National Technical University of Athens
Simona Bennici, Institut de Science des Matériaux de Mulhouse – IS2M
Spyros Pavlostathis, Georgia Tech
Stephen Smith, Imperial College
Stergios Vakalis, University of the Aegean
Stijn Van Hulle, Ghent University
Su Shiung Lam, Universiti Malaysia Terengganu
Sunil Kumar, CSIR-NEERI
Sunita Varjani, Gujarat Pollution Control Board, Gandhinagar
Ta Yeong Wu, Monash University
Thrassyvoulos Manios, Technological Educational Institute of Crete
Ulku Yetis, Middle East Technical University
Vassilis Inglezakis, University of Strathclyde
Zorana Naunovic, University of Belgrade

ORGANIZING COMMITTEE

Konstantinos Moustakas, National Technical University of Athens, Head

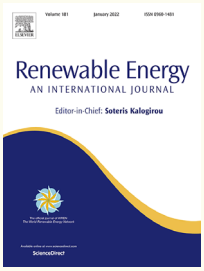
A.C. (Thanos) Bourtsalas, Columbia University
Dimitrios Malamis, National Technical University of Athens
Elli-Maria Barampouti, National Technical University of Athens
Konstantinos Passadis, National Technical University of Athens
Maria Kyriazi, National Technical University of Athens
Nikoleta Kontogianni, National Technical University of Athens
Sophia Mai, National Technical University of Athens
Stergios Vakalis, University of the Aegean

Publications

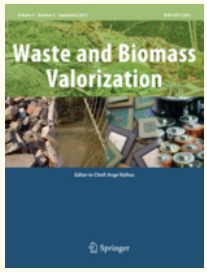
High quality **CORFU 2022 papers** will be published after evaluation in:

- a Special Issue of **RENEWABLE ENERGY** (ELSEVIER, Impact Factor: 8.001) with title: Biorefinery beyond the "Valley of Death",
- a Special Issue of **WASTE AND BIOMASS VALORIZATION** (SPRINGER, Impact Factor: 3.703) in collaboration with Prof. Ange Nzihou, Editor-in-Chief of the Journal,
- a Special Issue of **ENVIRONMENTAL SCIENCE and POLLUTION RESEARCH** (Springer, Impact Factor: 4.223) with title: Sustainable waste management and circular economy,
- a Special Issue of **BIOMASS CONVERSION AND BIOREFINERY** (Springer, Impact Factor: 4.987) with title: Sustainable management of organic solid waste.
- a Special Issue of **SUSTAINABLE CHEMISTRY & PHARMACY** (Elsevier, Impact Factor: 4.508) with title: Waste management and resource efficiency in the era of circular economy.
- The best water related papers will be published in a **Special Issue of DESALINATION & WATER TREATMENT** (Taylor & Francis, Impact Factor: 0.854).

More journals will be announced in the next weeks...

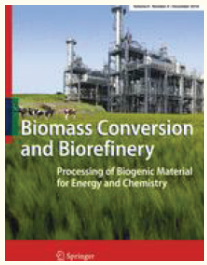


Renewable Energy



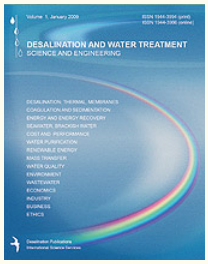
Waste and Biomass Valorization

Environmental Science and Pollution Research



Biomass Conversion and Biorefinery

Sustainable Chemistry and Pharmacy



Desalination and water treatment

Call for Papers

Authors are invited to submit an extended abstract of maximum 2 pages in English, including figures and tables (as MS Word file). **The abstracts can be submitted electronically via the specific form no later than 28th February 2022.**

Abstracts will be accepted based on quality, originality and relevance to the conference themes. All accepted papers will be published as the conference proceedings (CD ROM format), while the best papers after evaluation will be published in scientific journals. We look forward to receiving your paper and we hope to see you actively taking part in the CORFU 2022 Conference.

Paper Submissions

After the end of the review process of the abstracts, the authors of the papers accepted for oral and poster presentation are asked to submit a full paper with maximum length of 12 pages. Please send the full paper by **email to konmoust@central.ntua.gr until 30th April 2022 at the latest.**

Important Deadlines

15 October 2021	First call for papers
30 November 2021	Second call for papers
28 February 2022	Extended Deadline for abstract submission
15 March 2022	Notification of abstract acceptance
10 March 2022	Deadline for Early bird registration
30 April 2022	Deadline for authors to register
30 April 2022	Deadline for submission of full papers

Keynote Speakers

JIRI JAROMIR KLEMEŠ

DANIEL TSANG

SU SHIUNG LAM

CAROL S.K. LIN

ANGE NZIHOU

NICOLAS ABATZOGLOU

JAE K. (JIM) PARK