

Closed Cycles and the Circular Society 2023 The Power of Ecological Engineering











1-5 October 2023, Chania, Greece

Call for Abstracts

About the International Ecological Engineering Society

The IEES was founded in 1993, with the idea of bringing together experts and conducting Ecological Engineering activities within an international society. IEES is a non-profit organization with more than 400 members globally seeking to promote and advance a broad view of Ecological Engineering through these four core activities:

- Connect: Facilitate and improve the cooperation between ecologists, engineers and other scientific fields
- **Exchange**: Promote the exchange between scientific and educational organizations, enterprises, and (non-)governmental organizations
- **Educate**: Support the development of a common Ecological Engineering curriculum
- Promote: Raise the awareness of Ecological Engineering practice worldwide

Call for Abstracts

Submit your abstract

International experts, professionals, researchers and academics from a broad and diverse range of fields are invited to submit their abstracts to present their contributions during the IEES 2023. The conference will be held between October 1st – 5th, 2023 in Chania on the island of Crete, Greece with physical presence and is organised by the Laboratory of Environmental Engineering and Management of the Technical University of Crete. There will be oral and flash oral presentations and poster sessions.

This is a special conference for us, as it marks the 30th anniversary of the foundation of the IEES in 1993! In this frame, our aim is to deliver and spread the message of redefining the ecological engineering discipline and communicate the IEES's vision of an ecology-inspired circular engineering, as declared in our Manifesto of Ecological Engineering.



Type of Contributions

- Oral presentation: submit an extended abstract of up to 4 pages (including references). Oral presentations will be 12 mins + 3 mins for questions.
- Flash oral presentation: submit an extended abstract of up to 4 pages (including references). Flash oral presentations will be 5 mins (no questions follow).
- Poster presentation: submit an abstract of up to 2 pages (including references). Poster files should be sent via email (submissions_iees@tuc.gr).



- → Call for Abstracts is open: 23 January 2023
- → Registration portal is open: 25 January 2023
- ➤ Early Bird registration: until 1 May 2023
- → Registration deadline: 30 June 2023
- → Conference dates: 1-5 October 2023



- Each registration allows a maximum of two contributions: one oral presentation & one flash oral presentation or one poster presentation
- The submitted abstract must be novel, well-described, and fitting the Conference topics
- Submissions must contain original data and meet international ethical standards
- Word format (NOT PDF) must be used

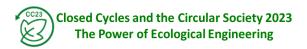




Conference Topics

Use of ecological elements and ecosystems to reduce pollution		
 Phytoremediation Natural treatment systems Constructed wetlands Use of ecosystems in a circular society 	 Sustainable water and wastewater treatment Ecological sanitation Stormwater and groundwater management 	Sustainable groundwater remediationSoil bioremediation
 Nature-based solutions: e.g., green roofs, green walls, rain gardens, green facades, vertical gardens, bioretention systems, microalgae culture, rainwater harvesting, urban forests, swales, soakways, green/blue corridors, drain ways, participatory watershed management, coastal mangrove restoration, etc.) Circular design and integrated planning approaches for increased respectively. 	 Water-energy-food nexus in circular economy Urban agriculture and horticulture Ecosystem restoration Urban heat island mitigation strategies Urban ecology 	 Improving mental health and well-being in urban areas Green and smart buildings Sustainable drainage systems Infiltration in urban areas
 Biomimicry and biophilic design Role of architects, planners, and engineers in circular design Circular and smart cities for urban sustainability Eco-villages 	 Design for ecosystem services Urban metabolism Regenerative urbanism Circular built environment 	 Urban and regional environmental planning Urban strategies in ecological landscape architecture Green-blue infrastructure Ecosystem modelling
Resource recovery and reuse O Water reuse, recycling, and reclamation Nutrient and material recovery Protection and reclamation of soils	 Composting systems and smart fertilizers Bio-based products, materials, biofuels Biochar/hydrochar-based materials 	 Sustainable transformation of renewable bioresources Ecological solutions for industrial symbiosis
 Climate change, green and just transition, and carbon neutrality: the From the Green Deal to the Real Deal Energy-saving technologies Eco-engineering for energy efficiency Bioenergy, biomass to fuel Microbial fuel cells 	 e role of ecological engineers Bio-sequestration, soil-carbon sequestration Industrial ecology Life-cycle assessment Environmental impact assessment Social life cycle and impact assessment 	 Stakeholders' engagement and citizen participation Capacity building and living labs Environmentally focused social innovation
Regenerative agriculture	 Sustainable forest management Recirculating algae production system Livestock management 	 Biorefineries Aquaculture and aquaponics Agricultural and food engineering
 Ecological Engineering and the mining industry Mine land restoration Sustainable management of mine drainage 	Plant-soil-water interactionPlant growth and nutrition	 Erosion processes, soil stabilization and management Geomorphology of reclaimed land
 Ecological Engineering Education Ecological engineering curriculum Interdisciplinary education Systems thinking and analysis 	 Circularity in education Nature-based learning Knowledge integration	 International exchange of credits Accreditation







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