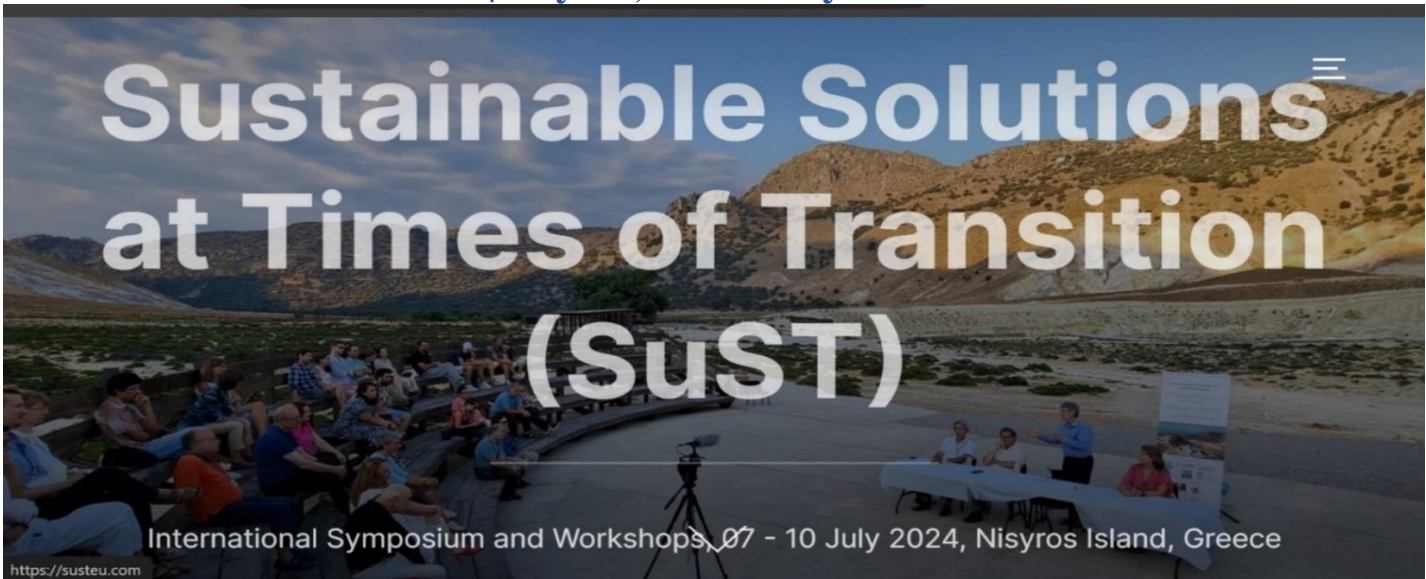




**Under the patronage
of H.E. the President of the Hellenic Republic
Ms Katerina Sakellariopoulou**

**SuST.2024
International Symposium and Workshops
|Nisyros, 07-10 July 2024**



Municipality of Nisyros, Greece



ARISTOTLE
UNIVERSITY OF
THESSALONIKI



Mediterranean Network of Engineering & Management schools, France

UNESCO CHAIR 651



PROGRAM

Sunday, July 7th, 2024		SYMPOSIUM - ZOSIMOPOULIO CONFERENCE HALL	
18.00-21.00	Registration		
19.30-20:00	Welcome addresses		
	Anastasia Zabaniotou, Conference Chair		
	Christofis Koroneos, Mayor of Nisyros		
	Nicolas Moussiopoulos, Honorary Chair		
20:00-21:30	<p style="text-align: center;">Keynote speakers</p> <p style="text-align: center;"><i>Charís Doukas, Mayor of Athens</i> Professor of Energy Policy and Management at the School of Electrical and Computer Engineering of the National Technical University of Athens</p> <p style="text-align: center;"><i>Christofis Koroneos, Mayor of Nisyros Municipality</i> Associate Professor at the University of Western Macedonia, Chair of Renewable Energy Sources and Energy Management</p>		

Monday, July 8th, 2024		SYMPOSIUM - ZOSIMOPOULIO CONFERENCE HALL	
8:30-14:00	Registration		
	<i>Moderators: A. Zabaniotou, Ch. Koroneos, N. Moussiopoulos</i>		
9:00-9:30	<i>Donald Huisingh (USA) (online), Plenary speaker</i> Don't Waste a GOOD Crisis!		
9.30-10.00	<i>Constantinos Sioutas (USA), Keynote speaker</i> Air Quality and health impact in Milan: Biomass burning post Russia-Ukraine crisis		
S1	<i>Sustainable and Just Energy Transition</i>		<i>Moderators: C. Sioutas, E. Kondyli</i>
10:00-10:20	<i>Nicolas Moussiopoulos (GR), Keynote speaker</i> A reference solution for a global climate-neutral and sustainable energy system		
10:20-10:40	<i>Athanasios G. Konstandopoulos (GR), Keynote speaker</i> Sustainable energy carriers for a just transition		
10:40-11.00	<i>Abdul Salam K. Darwish (UK), Keynote speaker</i> Transition to sustainable energy: Advancing energy crisis solutions through floating wind technology		
11.00-11.20	<i>Murphy Peksen (DE), keynote speaker</i> Multiscale-multiphysics considerations of electrolysis materials, components, and systems: A sustainable way to produce green hydrogen		
11.20-12.00	PANEL Discussion and Questions		
	12:00-12:30 Coffee Break		
S2	<i>Holistic Perspective of Urban & Rural Sustainability</i>		<i>Moderators: A. Trombadore, I.Spilanis</i>
12:30-12:50	<i>Derya Oktay (TR), Keynote speaker</i> Sustainable urbanism in the era of globalization and climate change: A holistic perspective		
12:50-13:10	P. Morone, A. Morone, R. Caferra The proximity of climate change: Personal experience, psychological distance and sustainable behavior		
13.10-13:30	G. Katsavounidou Early adolescent girls and their environment: Gendered experience of urban, suburban, and rural neighborhoods in Greece		
13:30-13:45	M. Chouari, M. Ghiss Gender equality policies towards the empowerment of rural women in Tunisia		
13:45-14:00	PANEL Discussion and Questions		
	14:00-16:00 Midday Break for Lunch		
S3	<i>Participatory Processes for Sustainable Islands</i>		<i>Moderators: N. Moussiopoulos, D. Oktay</i>
16:00-16.20	<i>Antonella Trombadore (IT), Keynote speaker</i> Green infrastructure and architectural solutions for energy and nature positive Mediterranean islands		
16:20-16:35	I. Spilanis, A. Mitropoulou Islands: why now they require a dialogue with locals than ever before		
16:35-16:50	E. Kondyli, J. K. Kaldellis, M. Zaroula, A. Adrianopoulou Water Resources sustainability in Aegean Islands: The need for an integrated approach to a critical and continuous water- energy problem		
16:50-17:05	N. Alonistioti, V. Gkika, C.J. Koroneos		

	Smart Nisyros: A digital twin-empowered platform for the detection, management and mitigation of hazardous events
17:05-17:20	A.J. Kaldellis, M. P. Bratitsis, E. M. Kondyli, J. K. Kaldellis Optimum sizing of a PV-battery solution for the green operation of Nisyros new desalination plant
17:20-17:35	D. Symeonidis The potential impact of hydrogen valleys for regional growth of the tourism industry in small islands: A Case Study
17:35-17:50	I. Spilanis, S. Karampela, E. Alexiou, I. Katsounis, P. Dimitropoulos, A. Mitropoulou, K. Laskari Participatory processes as a key strategy for sustainable Ionian islands
17:50-18:05	D. Koutsi, E. Mougiakou Co-creating Island tourism futures: Insights from participatory workshops implemented on Mediterranean islands
18:05-18:30	PANEL Discussion and Questions
18:30-19:00 Coffee Break	
S4	<i>Sustainability of Heritage and Tourism</i> Moderators: F. Katsavounidou, A. Konstandopoulos
19:00-19:15	S. Coll Pla, J. R. Calzada, M. F. Pérez, A. Panayotu The sustainability of urban heritage
19:15-19:30	M. Nastou Sustainable heritage management of the ancient Greek theatre of Lindos, Rhodes, Greece
19:30-19:45	A. Mitropoulou, I. Spilanis Integrated approach for sustainable development on islands under tourism pressure: Exploring the link between overtourism and carrying capacity within an interdisciplinary dialogue
19:45-20:00	I. Kostavelis, Ch. Achilles, D. Folinas Cultivating connections: The TOURAL project's pathway to sustainable development through cultural and creative tourism
20:00-20:30	PANEL Discussion and Questions
21:30-24:00	<i>GALA DINNER</i>

Tuesday, July 9th, 2024

WORKSHOPS-ZOSIMOPOULIO CONFERENCE HALL

W1	<i>Systemic Climate Change Mitigation</i> Moderators: A.S.K. Darwish, T. Akiki
9:00-9:15	D. Assimacopoulos, I. Sebos, D. Chioti, P. Katsiardi Development and implementation of a national monitoring & evaluation system for climate change adaptation in Greece
9:15-9:30	N. Afxentiou, O. Douni, N. Paraskakis, P.A. Fokaides Streamlining smart readiness: An innovative tool for quick SRI assessment in European buildings
9:30-09:45	D. Tsirigoti Urban typologies and sustainability: The effect of urban geometry at the Greek city's microclimatic conditions
09:45-10:00	M. Asteriou, G. Zarotiadis Evaluating protected areas' contribution to sustainable local development in Greece
10:00-10:15	D. Ziouzos, V. Karayannis, C. Tsanaktsidis Sustainable wind energy production with the development of an innovative turbine monitoring algorithm using swarm robotics
10:15-10:30	A. Wolter, A. S. Darwish, P. Farrell Beyond fossil fuels: Green hydrogen & wind energy-Building a secure and sustainable future
10:30-11:45	T. K. Akiki, M., J. Semaani, B. Nehme Offshore wind potential in Lebanon
11:45-12:00	PANEL Discussion and Questions
12:00-12:30 Coffee Break	
W2	<i>Circular Economy Solutions for Sustainability</i> Moderators: A. Konstandopoulos, A. Wolter
12:30-12:45	D. Achilias The (thermo)chemical recycling of plastics as a sustainable solution to the plastic waste problem
12:45-13:00	M. Bampaou, G. Kardaras, Tz. Kraia, K.D. Panopoulos, L.P. Chryssikou, S. Bezergianni, S. Kiartzis, S. Pilitsis, E.A. Nanaki A circular economy model for plastics waste valorization towards high-added value products
13:00-13:15	K. Poullos, A. Zafeirakou, A. Katsoulea, G. Perkoulidis, N. Moussiopoulos Development and implementation of a municipal solid waste management system in the context of circular economy: Implementation in the region of Central Macedonia, Greece
13:15-13:30	N. Manirakiza, C. Gisèle Jung MSW landfills in developing countries - air and water pollution: how to improve?

13:30-14:00	PANEL Discussion and Questions	
14.00 -16:00 Midday Break for Lunch		
W3	<i>Bioeconomy towards a Sustainable Society</i>	<i>Moderators: P-J. Morone, C.G. Jung</i>
16:00-16:15	M. Proestou, P. H. Feindt, N. Schulz The role of the state in bioeconomy governance – The case of Germany and Malaysia	
16:15-16:30	E. Sdrolia, K. Cradock, M. Dermiki, G. Zarotiadis Green products and firm's financial performance in European manufacturing: A systematic literature review and meta-analysis	
16:30-16:45	V. Proskynitopoulou, A. Vourros, P. Dimopoulos Toursidis, S. Lorentzou, T. Korka, A. Marinou, A. Foutri, Y. Fallas, N. Ntavos, K.D. Panopoulos Upcycling food waste for healthier soil and more resilient food systems: A living lab approach in Northern Greece	
16:45-17:00	D. Skodra, C. Kiriklidis, E. Lakioti, V. Karayannis, C. Tsanaktsidis Food industry waste management in the context of circular bio-economy towards a sustainable society	
17:00-17:15	PANEL Discussion and Questions	
17:15-17:45 Coffee Break		
W4	<i>New technologies at the service of Production and Circular Economy</i>	<i>Moderators: M. Peksen, N. Moussiopoulos</i>
17:45-18:00	E. Giarimaga, L. Kitsanta, E. Salonikidis, S.-M. Tasiopoulos, A. Charalampous, C. Kyriklidis, C.G. Tsanaktsidis Recent trends on optimal biodiesel production through AI and nature-inspired techniques: A review	
18:00-18:15	D. Giorgi, C. Morea, C. Rutigliano New circular scenarios for textile & fashion through digital product passport and digital twin	
18.15-18:30	A.Yayan, C. Ozonuk, B. G. Gulcan Developing an AI-based approach in creating visual and digital content and AI generated fashion	
1830-18:45	B. Koyuncu, C. Candan, M. M. Peksen, B. Nergis A novel artificial intelligence-based approach for knitted fabric development	
18:45-19:00	PANEL Discussion and Questions	
20.00-24:00	SOCIAL EVENT	PINK FLOYD CONCERT AT THE VOLCANO

Wednesday, July 10 th , 2024		WORKSHOPS-ZOSIMOPOULIO CONFERENCE HALL
W5	<i>Eco-digital nexus s and Artificial Intelligence for Sustainability, Resilience, Education</i> <i>Moderators: A.S.K. Darwish, A. Zabaniotou</i>	
09:30-09:15	W. O. Benaissa, S. Kabbaj, F. Ouhtita Navigating the eco-digital nexus for fostering sustainable futures & ecological resilience. How can digitalization be leveraged to promote sustainable solutions & enhance resilience in times of ecological crisis	
09:15-0:9:30	S. Kabbaj, N. El Haoud, Ch. Mhaya New technologies at the service of sustainable development	
09:30-09:45	B. Saber, N. El Haoud, S. Kabbaj, F. Z. Bassir Artificial intelligence at the service of the smart and ecological city	
09:45-10.00	N. El Haoud, Z. Bachiri Impact of AI on socio-economic inequalities in Morocco: Perspectives and solutions	
10:10-10:15	S. Juidette, A. Zraiouil, S. Chatoui Evaluating e-learning platforms in higher Education: An empirical study of user acceptance and experience	
10:15-10:30	N. El Haoud, O. Hali Exploring Artificial Intelligence in Education in Moroccan Context: Challenges, and Opportunities	
10:30-11.00	PANEL Discussion and Questions	
11:00-12:00	NETWORKING	
<i>PANEL</i>	A. Zabaniotou, N. El Haoud, A. Trobadore, G. Perkoulidis, T. Akiki, I. Spilanis, M. Peksen, A.S.K. Darwish, etc	
12:00-12:30	CLOSING SESSION	