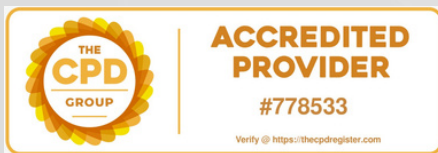


ORGANIZED BY



# GLOBAL MEET ON CLIMATE CHANGES & SUSTAINABILITY

28-29  
NOV 2024



# SCIENTIFIC PROGRAM



GLOBAL MEET ON  
**CLIMATE CHANGES AND  
SUSTAINABILITY**

REGISTRATIONS (09:00-09:30)

OPENING REMARKS (09:30-10:00)

KEYNOTE FORUM (10:00-11:30)

10:00-10:30

**Green Hydrogen Transport Value Chain: Movable Sustainable Solution for Large Construction Sites, applicable for Taxi Ranks, Bus Terminals and Truck Depots, including Campuses and Airport Ground Transportation**

Vladimir Linkov, University of the Western Cape, South Africa

10:30-11:00

**Estimation of ripening timing of red wine grape varieties based on phenomenological models**

Ilie Bodale, Ion Ionescu de la Brad Iasi University of Life Science, Romania

11:00-11:30

**Renewable Materials Development**

André Ferreira Costa Vieira, University of Beira Interior, Portugal

REFRESHMENT BREAK - GROUP PHOTO (11:30-11:50)

TECHNICAL SESSION-I

11:50-12:15

**Assessing Stormwater Pond Resilience to Climate Change and Rising Groundwater Levels Using Integrated Modeling**

Rahman Davtalab, Singhofen-Halff Inc., USA

12:15-12:40

**Use of Hydrogen in compression ignition engines: techniques for reducing NOx Emissions**

Javier Serrano Reyes, University of Seville, Spain

12:40-13:05

**The expected environmental impact of the King Abdulaziz Public Transport Project in Riyadh on the level of air quality**

Mohammed Saad Almogarry, King Saud University College of Humanities &amp; Social Sciences, Saudi Arabia

LUNCH @ RESTAURANT (13:05 - 14:00)

14:00-14:25

**A Nature-Based Tool to design vegetation barriers along road infrastructure to contain anthropogenic atmospheric Particulate Matter: characterization of leaf functional traits**

Alessia Postiglione, University of Naples Federico II, Italy

GLOBAL MEET ON  
**CLIMATE CHANGES AND  
SUSTAINABILITY**

**14:25-14:50**      **Asymmetric Energy Harvesting Strategy for Asymmetric Impedance Devices:  
Triboelectric Nanogenerator**

**Jiwon Jeong**, Gyeongsang National University, South Korea

**14:50-15:15**      **Success and challenge for the use of renewable energy in Brazil**

**Reinaldo Silveira**, National Meteorological Institute, Brazil

**15:15-15:40**      **Circular economy - trends of evolution in a group of Eastern European countries**

**Carmen Stoenoiu**, Technical University of Cluj-Napoca, Romania

**REFRESHMENT BREAK (15:40 - 16:00)**

**POSTER VIEWING (16:00 - 16:25)**

**Poster - 1**      **Enhanced low-temperature CO<sub>2</sub> methanation over Ni-based catalyst: Effect of  
support and reaction mechanism**

**Cristina Italiano**, CNR-ITAE, Italy

**Poster - 2**      **Present and future of climate change in latin america (LATAM) and Colombia,  
analytical perspectives from developing countries**

**Diego Alejandro Garcia Rubio**, Minuto de Dios Uniminuto University, Colombia

**Poster - 3**      **Materials for Energy Storage Device – Na-based Batteries**

**Claudia d'urso**, CNR-ITAE, Italy

**Poster - 4**      **Automated Data Analysis for Lithium Ion Battery Aging Studies**

**Florian Stroebl**, Munich University of Applied Sciences, Germany

**Poster - 5**      **Analytical performance of TXRF and ICP-MS in the detection of arsenic and lead  
in mussels**

**Nina Nicoleta Lazar**, Dunarea de Jos Univeristy of Galati, Romania

**Poster - 6**      **Monitoring the presence of pesticides in various fish species from the Danube  
River**

**Stefania Adelina Milea**, Dunarea de Jos Univeristy of Galati, Romania

GLOBAL MEET ON  
**CLIMATE CHANGES AND  
SUSTAINABILITY**

**Poster - 7**      **Analysis of pharmaceutical residues from the Danube river in the period 2021-2023**

**Calmuc Valentina Andreea**, Dunarea de Jos Univeristy of Galati, Romania

---

**Poster - 8**      **Evaluation of the microplastics occurrence in the predeltaic and deltaic sector of the Danube River**

**Calmuc Madalina**, Dunarea de Jos Univeristy of Galati, Romania

---

**Poster - 9**      **Bioaccumulation Capacity of Heavy Metals in Water, Sediment and Ichthyofauna from the Predeltaic area of the Lower Danube, Romania**

**Topa Maria Catalina**, Dunarea de Jos Univeristy of Galati, Romania

---

**Poster - 10**      **The influence of climate changes on the quality of water and sediments in the Sulina branch of the Danube River**

**Catalina Iticescu**, Dunarea de Jos Univeristy of Galati, Romania

---

**TECHNICAL SESSION-II**

**16:25-16:50**      **Biological responses from environmental pollution by heavy metals in the “land of fires” (Italy) assessed using the biomonitor liverwort species Lunularia cruciata L. (Dum)**

**Viviana Maresca**, University of Rome “Link Campus”, Italy

---

**16:50-17:15**      **Sustainable Recycling of Bio-Based Composite Polyurethane Foams Using Green Chemicals**

**Federica Recupido**, National Research Council of Italy, Italy

---

**17:15-17:40**      **Encyclopedia of Bioanalytical Methods for Bioavailability and Bioequivalence Studies of Pharmaceuticals**

**Wojciech Paprocki**, SGH Warsaw School of Economics, Poland

---

**17:40-18:05**      **Respirometric Evaluation of Biodegradability of PLA/Micronized Cellulose Composite Pellets**

**Joana Curto**, University of Beira Interior, Portugal

GLOBAL MEET ON  
**CLIMATE CHANGES AND  
SUSTAINABILITY**

**18:05-18:25**      **Screening of heavy metal responsive biomarkers for the creation of biosensors for environmental pollution**

**Adriana Basile**, University of Naples Federico II, Italy

**18:25-18:50**      **An empirical analysis to investigate the role of institutions in closing the gap between environmental policy stringency and energy poverty**

**Asad Ullah**, Xi'an Eurasia University, China

**18:50-19:15**      **Multi-source (Hybrid) Power Generation Model and its contribution to Decarbonization of Turkish Grid**

**Sirri Uyanik**, KTO Karatay University, Turkey

PANEL DISCUSSIONS

END OF DAY-1

**November 29**  
**Virtual Presentations**  
**Central European**  
**Time**

GLOBAL MEET ON  
CLIMATE CHANGES AND  
SUSTAINABILITY

DAY-2 (NOVEMBER 29)

CENTRAL EUROPEAN TIME

10:00 - 16:00

- |             |  |
|-------------|--|
| 09:00-09:25 | <b>ESG and project management</b><br>Ibrahim Abdallah, Torrens University, Australia   |
| 09:25-09:50 | <b>Theoretical energy conversion efficiency which has light absorption layer of nm-scale dopant rich region located in depletion layer</b><br>Isamu Jonoshita, Japan |
| 09:50-10:15 | <b>Advancement of Environmentally Friendly Nano Catalysts for Efficient Dye Degradation in Water</b><br>Suranjana V. Mayani, Marwadi University, India               |
| 10:15-10:45 | <b>Keynote: The Role of Cooperative Approach in Enhancing Energy Efficiency of Urban Traffic Systems</b><br>Miroslav Vujić, University of Zagreb, Croatia            |
| 10:45-11:15 | <b>Keynote: IoT Platform for Sustainable Monitoring</b><br>Martin Zagar, RIT, Croatia  |
| 11:15-11:40 | <b>Global Population: from Super-Malthus behavior to Doomsday Criticality</b><br>Aleksandra Drozd-Rzoska, Polish High Pressure Institute, Poland                     |
| 11:40-12:05 | <b>Cybersecurity Strategies for Hydrogen-Based Smart Grids</b><br>Ayat Allah Bouramdane, International University of Rabat (IUR), Morocco                            |
| 12:05-12:30 | <b>Trends in Digital Twin Framework Architectures for Smart Cities: a case study in Smart Mobility</b><br>Christos Antonopoulos, University of Peloponnese, Greece   |



GLOBAL MEET ON  
**CLIMATE CHANGES AND  
SUSTAINABILITY**

## DAY-2 (NOVEMBER 29)

- 12:30-12:55**      **Comprehensive investigation of material properties and operational parameters for enhancing performance and stability of FASnI3 based perovskite solar cells**  
Rania Saleh Alqurashi, Al Baha University, Saudi Arabia
- 
- 12:55-13:20**      **Wind energy and the Built Environment**  
Abdel Rahman Elbakheit, King Saud University, Saudi-Arabia
- 
- 13:20-13:45**      **Pesticides pollution: Ecotoxicological Studies and Environmental Risk Assessment**  
Davide Di Paola, University of Messina, Italy
- 
- 13:45-14:10**      **Climate change reporting – the new frontier**  
Petra Dilling, SUNY Empire State University, USA
- 
- 14:10-14:35**      **Monitoring threats to wildlife using predictive analyses and visualizations from remote sensing data**  
Kristen Bellisario, Purdue University, USA
- 
- 14:35-15:00**      **Rapid Evaluation of the Effects of Policies Corresponding to Air Quality, Carbon Emissions and Energy Consumption: An Example from Shenzhen, China**  
Li Fen, China Shenzhen Institute of Building Research, China
- 
- 15:00-15:25**      **Linking timescale-dependent Antarctic sea ice kinematic observations to ice thickness**  
Tian R. Tian, University of Wisconsin-Madison, USA

END OF DAY-2

## UPCOMING CONFERENCES - APRIL, 2025

### VIENNA, AUSTRIA

Name of the conference	Contact Details
Ophthalmology & Vision Research	Dr. Vanga director@unitedforum.uk +44 7404141173
Otorhinolaryngology and Head & Neck Care	Arha Tamyra otolaryngology@urforum.org +44 7404141173
Dentistry and Oral Health	Mary Jane maryjane@urforum.org +447958436762
Breast and Cervical Cancer	James Mathew Jamesmathew@unitedforum.uk +44 7867919466
Reproduction, Fertility and Gynecology	Zara Helene zara@unitedforum.uk +44 7867919466

## UPCOMING CONFERENCES - JULY, 2025

### ROME, ITALY

Name of the conference	Contact Details
Dermatology, Cosmetology and Aesthetic Surgery	Dr. Aadri Livia rajitha@urforum.org 44 7404141173
Ageing and Gerontology	Ryan Joseph ryanjoseph@urforum.org +44-7867919466
Cardiology and Cardiovascular Medicine	James Anderson jamesanderson@urforum.org +44 7404141173
Endocrinology, Metabolism, and Molecular Medicine	Sarah Jones sarahjones.urf@gmail.com +44 7867 919466



## UPCOMING CONFERENCES - JULY, 2025 PARIS, FRANCE

Name of the conference	Contact Details
2D Materials and Applications	Dr. Vanga director@unitedforum.uk +44 7404141173
Chemistry and Chemical Engineering	Joseph Harris josephharris@urforum.org +44 7867 919466
Earth and Geological Sciences	Jack Harrison jackharrison@unitedforum.uk +44 7867 919466
Pediatrics and Neonatal Care	Ryan Cooper pediatriccongress@urforum.org +44 7404141173
Nursing & Patient Care	Amelia ameliajones@unitedforum.uk +447867919466



JULY 2024

**21-22**

PARIS, FRANCE

Chemistry &  
Chemical  
Engineering




JULY 2024

**21-22**

PARIS, FRANCE

2D Materials and  
Applications



SEP 2024

**18-19**

SPAIN

Climate Changes and  
Sustainability



SEP 2024

**18-19**

SPAIN

Materials Science and  
Engineering

For all Conference Enquires regarding Abstract Submission, Registration :

Dr. Vanga Rajendar

Director | United Research Forum



+447404141173



director@unitedforum.uk



www.unitedresearchforum.com