

SCIENTIFIC PROGRAM



International Conference on

EARTH SCIENCE AND CLIMATE CHANGE

OCTOBER 21-22, 2024 | ROME, ITALY

SCIENTIFIC PROGRAM

DAY 1 OCTOBER 21, 2024

08:30-09:30 | Registration Desk Opens

09:30-10:00 | Opening Ceremony & Inaugural Address

KEYNOTE FORUM

Tsai Chi Kuo, National Taiwan University of Science and Technology, Taiwan

10:00-10:45

Title: Using random forest to improve production efficiency and environmental impact reduction

COFFEE BREAK | 10:45-11:00

Sessions : Recycling Innovations | Solid Waste Management | Circulatory Economy | Climate Change | Green Energy | Geophysics and Geochemistry | Upcycling | Environmental Sustainability and Development | Renewable Energy | Climate Resilience | Paper Recycling | Atmospheric Chemistry

Chair: **Tsai Chi Kuo**, National Taiwan University of Science and Technology, Taiwan

Bastian Hansel, Freiberg University of Mining and Technology, Germany

11:00-11:30

Title: Early stage recovery of lithium from lithium-ion batterie black mass in pilot scale

Alan Tupicoff, Finding Other Solutions, Australia

11:30-12:00

Title: Climate change influence our built environment

Patricia Perez Llamas, Institute of Energy Technology (ITE), Spain

12:00-12:30

Title: Production of renewable hydrogen from non-recyclable urban and industrial textile waste

Alessandro Stillo, President of Rete ONU, Italy

12:30-13:00

Title: Waste pickers: A huge way for reusing and recycling waste with social, economical and enviromental effect

LUNCH BREAK | 13:00-14:00

Karina Corada-Pérez, University of East London, UK

14:00-14:30

Title: Green shields: The role of domestic gardens in enhancing air quality and thermal comfort

George Odhiambo Ochuodho, University of Nairobi-Kenya, Kenya

14:30-15:00

Title: Mitigating the impacts of climate change by enhancing environmental sustainability and increased food security in Rural Africa

Wensheng Fang, Chinese Academy of Agricultural Sciences, China

15:00-15:30

Title: Succession and reconstruction of soil microbial communities following fumigation

15:30-16:00 **Yutong Ji**, Chinese Academy of Agricultural Sciences, China
Title: Microbial regulation in biofumigation: Reducing soil-borne pest risks to boost cowpea yield

16:00-16:20 | COFFEE BREAK

16:20-16:50 **Xin Wang**, Chinese Academy of Agricultural Sciences, China
Title: Fumigation enhances soil manganese availability by altering the structure of the manganese-oxidizing microbial community

16:50-17:20 **Hongyu Wang**, Chinese Academy of Agricultural Sciences, China
Title: Synergistic effect of anaerobic bacteria Njyb-1 on soil anaerobic disinfection

NETWORKING AND AWARDS CEREMONY

END OF DAY 1



DAY-2 OCTOBER 22, 2024

Registration Desk Opens

Opening Ceremony & Inaugural Address

Sessions: Sustainable Materials Management | Industrial Waste Recycling | Metal and Plastic Recycling | Recycling Business and Marketing | Mitigation Measures | Remote Sensing & GIS Applications | Meteorology | Fossil Fuels | Earth Science | Climate Hazards

10:30-11:00 **Yoseph Arba Orke**, Arba Minch Water Technology Institute, Ethiopia
Title: Green shields: The role of domestic gardens in enhancing air quality and thermal comfort

COFFEE BREAK | 11:00-11:15

11:15-11:45 **Jean Paul Lange**, University of Twente, Netherlands
Title: Recycling cascade for waste plastics

11:45-12:15 **Roger Achkar**, Global Waste Cleaning Network, UK
Title: Rethinking plastics: Circular strategies for a greener future

12:15-12:45 **Thomas Valone**, Integrity Research Institute, USA
Title: Trend analysis of the hansen three-variable climate graph as a predictive roadmap based on paleoclimatology

12:45- 13:45 | LUNCH BREAK

13:45-14:15 **Nematullah Wafa**, RenewSphere, France
Title: Global disparities in renewable energy implementation are obstacles to climate change mitigation

Xinhua Chen, Chinese Academy of Agricultural Sciences, China

14:15-14:45

Title: Analysis of the key factors that influence the efficacy of metam sodium against soil-borne pests

Rongjun Guo, Chinese Academy of Agricultural Sciences, China

14:45-15:15

Title: Microecological mechanism behind the alleviation of common bean root rot disease after 7-year continuous cropping

Sa Xiao, Chinese Academy of Agricultural Sciences, China

15:15- 15:45

Title: Root-knot nematode infection promotes soil nutrient P transformation in Yam cultivation

COFFEE BREAK | 15:45-16:00

Yuan Li, Chinese Academy of Agricultural Sciences, China

16:00-16:30

Title: Effects of chloropicrin fumigation combined with biochar on soil bacterial and fungal communities

Lorena De Medina Salas, University of Veracruz, Mexico

16:30-17:00

Title: Waste management and the circular economy in Mexico

POSTER SESSION @ MEETING ROOMS

PANEL DISCUSSION

AWARDS AND CLOSING CEREMONY

