OMAN CLIMATE WEEK
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HOSTED & ORGANISED BY
هيئة البيئة ENVIRONMENT AUTHORITY

The 2nd International Conference on

SUSTAINABLE WASTE MANAGEMENT: CIRCULAR ECONOMY AND RESOURCE RECOVERY

PROGRAMME AGENDA

SWIII 2026
SUSTAINABLE WASTE MANAGEMENT:
CIRCULAR ECONOMY AND RESOURCE RECOVERY

14 - 16 SEPTEMBER 2026

www.omanclimateweek.com

SECOND INTERNATIONAL SUSTAINABLE WASTE MANAGEMENT CONFERENCE – SWM2026

14–16 SEPTEMBER 2026 · OMAN CONVENTION & EXHIBITION CENTRE, MUSCAT

CONFERENCE CHAIR

CONFERENCE CHAIR

Dr. Amal Salim Al Rahbi
Conference Chair
University of Technology and Applied Sciences (UTAS)

KEYNOTE SPEAKERS

KEYNOTE SPEAKER

Prof. Maria Loizidou
Professor
National Technical University of Athens

KEYNOTE SPEAKER

Prof. Su Shiung Lam
Professor at the Institute of Tropical Aquaculture and Fisheries
Universiti Malaysia Terengganu (UMT), Malaysia

PARALLEL TRACKS AT A GLANCE

	ROOM	TRACK
DAY 1	Meeting Room 12	Circular Economy, Governance, Digitalization & Industrial Deployment
DAY 1	Meeting Room 13	Waste-to-Energy, Fuels, Catalysis & CCUS
DAY 1	Meeting Room 14	Urban Mining, Circular Materials, Construction & Resource Recovery
DAY 2	Meeting Room 12	Circular Economy, Governance, Digitalization & Industrial System
DAY 2	Meeting Room 13	Waste-to-Energy, Bioenergy & Environmental Technologies
DAY 2	Meeting Room 14	Circular Materials, Construction & Resource Recovery

Paper presentations run in three parallel meeting rooms after the plenary sessions. Invited talks open each track on Day 1; keynotes open Day 2.

DAY 1

MONDAY 14 SEPTEMBER 2026 | OPENING PLENARY

جامعة التقنية والعلوم التطبيقية
University of Technology and Applied Sciences

OMAN CLIMATE WEEK
أسبوع عُمان للمناخ

08:00 - 09:00 Registration and Networking

09:00 - 09:15 Opening Ceremony

- NATIONAL ANTHEM
- QUR'AN RECITATION
- MC WELCOME NOTES — 10'
  - KHALID AL SALAMI
  - MEDIA PERSONALITY
- OPENING SHOW

09:15 - 09:45 Keynote Speeches

- WELCOME SPEECH — 5'
  - H.E. Dr. Abdullah bin Ali Al Amri
  - President, Environment Authority
  - Chair of the Oman Climate Week Steering Committee
- OCW VIDEO — 5'
  - ▶ OCW FILM
- KEYNOTE SPEECH — 5'
  - H.E. Mukhtar Babayev
  - Representative of the President of the Republic of Azerbaijan for Climate Issues
- RECORDED SPEECH — 5'
  - H.E. Jasem Mohamed AlBudaiwi
  - Secretary-General
  - Gulf Cooperation Council (GCC)
- KEYNOTE SPEECH — 5'
  - Dr. Roberta Boscolo
  - Climate & Energy Leader
  - WMO
- IPCC CHAIR RECORDED MESSAGE — 5'
  - Sir James Ferguson Skea
  - Chair
  - Intergovernmental Panel on Climate Change (IPCC)
- KEYNOTE SPEECH — 5'
  - Muhammad Taimur
  - Manager, Implementation Coordination
  - UNFCCC Secretariat, Bonn

09:45 - 09:50 Launch of «Environmental Innovation Center»

09:50 - 09:55 MOU Signing

MONDAY 14 SEPTEMBER 2026 | OPENING PLENARY

09:55 - 10:00	Launch of «Green Branch Award»
10:00 - 10:05	Keynotes & Sponsor Appreciation
10:05 - 10:30	Exhibition Tour & Coffee Break
10:30 - 11:30	**Ministerial Panel: Road to COP 31**

Opens with the COP 31 President of Negotiations Message

MODERATOR

H.H. Sayyid Dr. Adham bin Turki Al Said

Founder & Managing Partner

The Firm for Business and Economic Consulting

H.E. Dr. Abdullah bin Ali Al Amri

President, Environment Authority

Chair of the Oman Climate Week Steering Committee

Dr. Shezra Mansab Ali Khan Kharal

State Minister for Climate Change

Pakistan

The Hon Chris Bowen MP

Minister for Climate Change and Energy · COP 31 President of Negotiations Message

Australia

H.E. Sumaira Chowdhury

Representative

UNICEF Oman

H.E. Mukhtar Babayev

Representative of the President of the Republic of Azerbaijan for Climate Issues

Dr. Roberta Boscolo

Climate & Energy Leader

WMO

MONDAY 14 SEPTEMBER 2026 | MEETING ROOM 12

جامعة التقنية والعلوم التطبيقية
University of Technology and Applied Sciences

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MEETING ROOM 12 — CIRCULAR ECONOMY, GOVERNANCE, DIGITALIZATION & INDUSTRIAL DEPLOYMENT

11:30 - 12:00 — INVITED TALK 1

AI Enabled Waste Valorization: Converting Agricultural Waste into Renewable Energy, Biochar, and Sustainable Water Treatment Solutions

Dr. Jinendrika Anushi Weliwita
Lecturer
Higher Colleges of Technology, Fujairah, UAE

كليات التقنية العليا
Higher Colleges of Technology

12:00 - 12:20 — INVITED TALK 2

Smart Waste Management: Technologies, Trends and Future

Dr. Mohamed El-Khatib
Military Technological College (MTC), Muscat

12:20 - 12:40 — INVITED TALK 3

Data's Role in the New ESG Landscape

Sergio Brihuega Moreno
Founder & Chairman
Sygris

sygris

12:40 - 13:00 — INVITED TALK

How governments can use AI and satellite data for a more resilient world

David Critchley
Founder & Chairman
4 Earth Intelligence

4EI

13:00 - 14:00 LUNCH BREAK AND NETWORKING

14:00 - 14:15 — PRESENTATION

Industry 4.0 and Circular Economy Pathways in MENA

Dr. Suzanna ElMassah
Zayed University, UAE

14:15 - 14:30 — PRESENTATION

Waste-to-Innovation Learning for Circular Economy Education: Evidence from an Undergraduate Capacity-Building Program

Dr. Sumaiya Muneer
Qatar University

14:30 - 14:45 — PRESENTATION

Building MDO's ESG Framework: A Foundation for Sustainable Mining in Oman

Ahmad Husam Al Zubair
Minerals Development Oman (MDO)

14:45 - 15:00 — PRESENTATION

Industrial Waste Management

Sultan Al Reesi
Sohar Aluminium

15:00 - 15:15 — PRESENTATION

IoT System Simulation for Hazardous Waste Detection

Maryam Al-Hajri
Waikato University, New Zealand

15:15 - 15:30 — PRESENTATION

From Waste to Wealth: Leveraging Blockchain and Circular Economy Practices for Sustainability in Oman

Dr. Azadeh Hadian
Middle East College

15:30 - 15:45 — PRESENTATION

Circular Economy as a Pathway to Enhancing Government Readiness for a Sustainable Future: The Case of Oman

Dr. Aisha Al Sarihi
Ministry of Economy

15:45 - 16:00 — PRESENTATION

An AI-Powered Intelligent Sorting and Automation Framework for Efficient Process Management

Dr. Gouri Kiran Kumar
UTAS-Muscat

MONDAY 14 SEPTEMBER 2026 | PARALLEL SESSIONS

MEETING ROOM 12 CONTINUED — CIRCULAR ECONOMY, GOVERNANCE, DIGITALIZATION & INDUSTRIAL DEPLOYMENT

16:00 - 16:15 PRESENTATION

Global Governance and Compliance in the Circular Economy: Comparative Lessons from Nuclear and Chemical Energy Regimes

Tasneem Al Hadidi
International Atomic Energy Agency (IAEA)

16:15 - 16:30 PRESENTATION

Pharmacy for a Sustainable Future: Quantifying the Carbon Footprint of Pressurised Metered-Dose Inhalers (pMDIs) in Oman to Inform Pharmacist-Led Sustainability Interventions

Dr. Fatma Al Hakmani
Ministry of Health

16:30 - 16:45 PRESENTATION

Towards a Behavioral Digital Twin for Household Waste Compliance: An LLM-Based Approach for Multicultural Communities in Oman

Khalid Al-Darmaki & Adnan Al Salmi
UTAS-Muscat

16:45 - 17:00 PRESENTATION

AI Solution for Monitoring Beehives: Beecounter and Pollen Detection

Hidaya Al Abri
Sultan Qaboos University (SQU)

MEETING ROOM 13 — WASTE-TO-ENERGY, FUELS, CATALYSIS & CCUS

11:30 - 12:00 INVITED TALK 4

Nanostructured Catalysts for Energy and Environmental Sustainability

Dr. Murid Hussain
Director, Faculty of Engineering & Technology
Muscat University

12:00 - 12:30 INVITED TALK 5

From Biomass to Clean Energy: The Future of Sustainable Biofuel Production

Dr. Seyed Sadrameli
Associate Professor
German University of Technology in Oman (GUtech)

12:30 - 12:45 PRESENTATION

Simulating the Future – Physics AI in Circular Economy

Mark Skljarov
Founder and CEO
WasteLocker

12:45 - 13:00 PRESENTATION

ACSAD's Experience in Assessing the Impacts of Climate Change of the Agriculture and Water Resources Sectors

Dr. Ihab Jnad
Director
Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

MEETING ROOM 13 — CONTINUED — WASTE-TO-ENERGY, FUELS, CATALYSIS & CCUS

14:45 - 15:00 — PRESENTATION

Environment and Economic Based Analysis of the Industrial Carbon Capture Process Using Physical Solvent

Aamal J. Al Mamari
Sultan Qaboos University (SQU)

15:00 - 15:15 — PRESENTATION

Influence of Waste-Related Emissions and Meteorological Factors on $PM_{2.5}$, PM_{10}, and Surface Ozone over Oman

Dr. Baiju Dayanandan
Nizwa University

15:15 - 15:30 — PRESENTATION

Multi-Objective Optimization of CCUS Superstructure in Maximizing Annual Net Profit While Minimizing Net CO_2 Emissions

Mustafa Al Salmi
Sultan Qaboos University (SQU)

15:30 - 15:45 — PRESENTATION

Techno-Economic Assessment of Integrating Second-Life EV Batteries in Hybrid Renewable Energy Systems in Oman

Sara Alzadjali
UTAS-Muscat

15:45 - 16:00 — PRESENTATION

217 Plants, One Gap: Building Oman's Circular Sludge and Resource-Recovery Economy

Zahra Ali Al Bakri
Majan Modern Solutions

16:00 - 16:15 — PRESENTATION

Recycling Spent Black Tea as a Novel Heterogeneous Acidic Catalyst for Efficient Biodiesel Production from Waste Cooking Oil: Optimization, Kinetics, and Thermodynamic Insights

Prof. May Nasr BinJumah
Princess Nourah bint Abdulrahman University, Saudi Arabia

16:15 - 16:30 — PRESENTATION

Food Waste into Energy Using Smart Anaerobic Bacterial Digester

Sultan Al-Ghaithi
UTAS-Sohar

16:30 - 16:45 — PRESENTATION

Circular Economy in Construction: Enhancing Concrete Properties with Recycled Materials

Zakiya Al Nadabi
UTAS-Muscat

MEETING ROOM 14 — URBAN MINING, CIRCULAR MATERIALS, CONSTRUCTION & RESOURCE RECOVERY

11:30 - 12:00 — INVITED TALK 7

Circular Economy for Photovoltaics

Prof. Hussein A. Kazem
Professor, Faculty of Engineering
Sohar University

12:00 - 12:30 — INVITED TALK 8

Transforming Oil Sludge from Liability to Asset via Advanced Pyrolysis

Dr. Farrukh Jamil
Senior Lecturer, Faculty of Engineering & Technology
Muscat University

12:30 - 13:00 — INVITED TALK 9

The Circular Economy of Iron Ore By-product

Roberta Milagres de Oliveira
Technical Business Development Leader
Vale Oman

MONDAY 14 SEPTEMBER 2026 | MEETING ROOM 14

MEETING ROOM 14 CONTINUED

URBAN MINING, CIRCULAR MATERIALS, CONSTRUCTION & RESOURCE RECOVERY

13:00 - 14:00 LUNCH BREAK AND NETWORKING

14:00 - 14:15 PRESENTATION

Integrated Resource Recovery from Waste Plastics and Diesel Engine Exhaust Heat for Sustainable Energy and Water Production

Jahad Al Jabri
National University of Science & Technology (IMCO)

14:15 - 14:30 PRESENTATION

Omani Marine Algae as a Source of Sodium Alginate Nanoparticles and its Applications in Oil Produced Water Treatment – A Green and Sustainable Approach

Dr. Geetha Devi
National University

14:30 - 14:45 PRESENTATION

Bioconversion of PET-Derived Terephthalic Acid (TPA) into Polyhydroxyalkanoates (PHA) by Indigenous Bacterial Consortia from Arid Environments in Oman

Al Zahraa Aljulandani
Sultan Qaboos University (SQU)

14:45 - 15:00 PRESENTATION

Removal of Hexavalent Chromium from Wastewater Using Microbial Mat from Mine

Dr. Mohammad Tariq Khan
Sultan Qaboos University (SQU)

15:00 - 15:15 PRESENTATION

Circularity in the Construction Industry

Shameem Al Mahrizi
Sustainability Officer
Holcim

15:15 - 15:30 PRESENTATION

Analysis of Construction Waste Management System in Oman: A Circular Economy Approach

Eng. Raya Al Abri
Projects, Tenders & Local Content Authority

15:30 - 15:45 PRESENTATION

Sustainable Minerals Exploration Used in Minerals Development Oman (MDO)

Mohammed Al Mahrouqi
Minerals Development Oman

15:45 - 16:00 PRESENTATION

Structural Behaviour and Strength Enhancement Techniques of Rubberized Concrete-Filled Steel Tubular Columns

Dr. Nashwa M. Yossef
Tanta University, Egypt

16:00 - 16:15 PRESENTATION

Microplastic Abundance and Characterization in Omani Coral Reefs: Insights from Muscat and Musandam

Hala Al Julandani
Environment Authority

16:15 - 16:30 PRESENTATION

Granite Cutting and Polishing Sludge – Waste to Sustainable Masonry Material

Dr. Manjunath Amalkar
UTAS-Muscat

16:30 - 16:45 PRESENTATION

Application of Circular Economy Principles in Construction Waste Management in Oman

Dr. Shakila Javed
UTAS-Muscat

16:45 - 17:00 PRESENTATION

Assessment of Semi-Aerobic Solid Waste Treatment in Arid Regions: A Case Study of the "Fukuoka Method" in Jericho

Amin Nawahda
Palestine Technical University – Kadoorie, Ministry of Education & Higher Education

DAY 2

TUESDAY 15 SEPTEMBER 2026 | PLENARY & PARALLEL SESSIONS

09:00 – 10:30 Keynote Speeches — MEETING ROOM 13 & 14

OPENING SPEECH — 09:00 - 09:05

Dr. Amal Salim Al Rahbi
Conference Chair, SWM2026
University of Technology and Applied Sciences (UTAS)

KEYNOTE 1 — 09:05 - 09:45

Prof. Su Shiung Lam
Universiti Malaysia Terengganu (UMT)

Microwave-Assisted Conversion of Biomass and Waste: A Circular Strategy for Energy and Resource Recovery

KEYNOTE 2 — 09:45 - 10:25

Prof. Maria Loizidou
National Technical University of Athens

Waste Valorization in the Concept of Biorefinery

GROUP PHOTO — 10:25 - 10:30

GROUP PHOTO

10:30 - 11:00 | COFFEE BREAK AND NETWORKING

MEETING ROOM 12 — CIRCULAR ECONOMY, GOVERNANCE, DIGITALIZATION & INDUSTRIAL SYSTEM

11:00 - 11:15 — PRESENTATION
Implementation of Circular Economy Practices in Petroleum Development Oman
Shaima Haddabi
Senior Air Quality Specialist
Petroleum Development Oman (PDO)

11:15 - 11:30 — PRESENTATION
The BioEnergy Choice Hiding Inside Artificial Intelligence
Faris Abdullah Al-Kharusi
CEO
Utopia World Investment SPC

11:30 - 11:45 — PRESENTATION
Integrated Circular Economy Program & Digitalization
Dr. Abdulaziz Sharaf
Aramco

11:45 - 12:00 — PRESENTATION
Net Zero at a Crossroads: Reframing Waste, Carbon, and System Boundaries in Sustainability Transitions
Dr. Maan Hayyan
A'Sharqiyah University

12:00 - 12:15 — PRESENTATION
Sustainable Copper Mining Tailings Storage Facility – Mazoon Mining Project Case
Sobhan Alavikia
Mazoon Mining

12:15 - 12:30 — PRESENTATION
Digital Governance and Circular Economic Transformation in Oman under Vision 2040
Dr. Nurcan Kilinc-Ata
Sultan Qaboos University (SQU)

12:30 - 12:45 — PRESENTATION
The Raptor Restaurant: Safeguarding Oman's Wintering Eagles at be'ah Landfill in Dhofar
Fatma Al-Sharji
be'ah

TUESDAY 15 SEPTEMBER 2026 | MEETING ROOM 12

MEETING ROOM 12 CONTINUED

CIRCULAR ECONOMY, GOVERNANCE, DIGITALIZATION & INDUSTRIAL SYSTEM

13:00 - 14:00 LUNCH BREAK AND NETWORKING

14:00 - 14:15 PRESENTATION

Turning Plastic into Possibility: Building a Circular Economy Through Community Action

Debbie Richardson
Senior Corporate Affairs & Sustainability Strategist

14:15 - 14:30 PRESENTATION

Operational Realities of Port Reception Waste and Evaluating Circular Economy Potential in Practice

Vasileios Sasirmaz
Restitue, Greece

14:30 - 14:45 PRESENTATION

A Gap Analysis of Urban Water Resources Management in Libya under Climate Change Impacts

Ahmed Abugdera
Aljafara University, Libya

14:45 - 15:00 PRESENTATION

A Digital Framework for Industrial Waste Exchange and Circular Resource Recovery in Oman

Alhusain Alhadrami
International College of Engineering and Management

15:00 - 15:15 PRESENTATION

Deep Learning-Based Waste Segregation Framework for Post-Conflict Zones Integrating CNN, IoT, and AR

Dr. Divya Jyothi
UTAS-Mussanah

15:15 - 15:30 PRESENTATION

EcoRam: A Smart Scheduled Waste Management System for Sustainable Urban Ecosystems Inspired by the Japanese Model

Eng. Aya Nawahda
Sukun Engineering Office, Palestine

15:30 - 15:45 PRESENTATION

Bridging the Economic-Environmental Gap: A New Socioeconomic Model for Managing Private Healthcare Waste in Bahrain

Dr. Khadija Al-Omran
Bahrain Polytechnic, Bahrain

15:45 - 16:00 PRESENTATION

Organic–Recyclable Waste Classification via VGG16 Transfer Learning

Syed Mehr Ali Shah
Malaysian University of Science and Technology, Malaysia

16:00 - 16:15 PRESENTATION

Decarbonization and Circularity in the Construction Industry

Abdelrahman Awad
Holcim, Switzerland

16:15 - 16:30 PRESENTATION

Industrial Symbiosis for Circular Industrial Development in Egypt

Dr. Suzanna ElMassah
Zayed University, UAE

16:30 - 16:45 PRESENTATION

AI-Based Waste Management Strategy: Technological Adopting Perspective

Dr. Varalakshmi Subramani
Mazoon College

16:45 - 17:00 PRESENTATION

Comprehensive Loss Analysis and Simulation for Improving Sustainability and Waste Reduction in Wind Energy Conversion Systems

Dr. Afrah T. Awad
Renewable Energy Research Center, Kirkuk, Iraq

17:00 - 17:15 PRESENTATION

Governance Models for the Transition to Circular Waste Management in the Sultanate of Oman

Abdullah Al Saadi
University of Rostock, Germany

TUESDAY 15 SEPTEMBER 2026 | MEETING ROOM 13

MEETING ROOM 13 — WASTE-TO-ENERGY, BIOENERGY & ENVIRONMENTAL TECHNOLOGIES

11:00 - 11:15 PRESENTATION

NGS Reveals Diverse Microbiota and Quicker Composting Process in an Arid Region

Dr. Mahmood Al Ansari
Royal Court Affairs

11:15 - 11:30 PRESENTATION

AI-Optimized Green Hydrogen Production from Biomass and Wastewater, and Integrated CO_2 Capture Pathways via Solar-Fenton and Natural Catalysts

Dr. Shabib Al Rashdi
National University

11:30 - 11:45 PRESENTATION

Enhancing the Production of Biogas from the Anaerobic Co-Digestion of Seaweed and Cow Manure Using Conductive Additives

Dr. Zeinab Yavari
Sultan Qaboos University (SQU)

11:45 - 12:00 PRESENTATION

Hydrocarbon Upgrading: An Approach to Value-Added Iso-butene Production from N-butane

Dr. Swaprabha P. Patel
Qatar University

12:00 - 12:15 PRESENTATION

A Sustainable Adsorbent for Procion Red Dye Removal from Textile Wastewater

Seyda Tugba Gunday Anil
Imam Abdulrahman Bin Faisal University, Saudi Arabia

12:15 - 12:30 PRESENTATION

Recent Advances in Biochars Synthesis and Use for Phosphorus Recovery from Wastewater: Implications for Circular Economy and Environmental Sustainability Boosting

Dr. Salah Jellali
Sultan Qaboos University (SQU)

12:30 - 14:00 LUNCH BREAK AND NETWORKING

14:00 - 14:15 PRESENTATION

Nano Zero Valent Iron In-situ Coated Carbon Felt for Acetate Production Enhancement in Microbial Electrosynthesis Cell

Dr. Noor Al Balushi
Sultan Qaboos University (SQU)

14:15 - 14:30 PRESENTATION

Microkinetic Modeling of Catalytic Upcycling of Linear Low-Density Polyethylene (LLDPE) to Propylene through Isomerizing Ethenolysis

Dr. Mohamed Al Hinai
Sohar University

14:30 - 14:45 PRESENTATION

Aluminium Scrap Recycling

Mohammed Al Wishahi
Sohar Aluminium

14:45 - 15:00 PRESENTATION

Environmental and Economic Assessment of Treated Effluent-to-Hydrogen Pathways with Solar Integration

Zuhoor Al Rashdi
German University of Technology

TUESDAY 15 SEPTEMBER 2026 | PARALLEL SESSIONS

MEETING ROOM 13 CONTINUED — WASTE-TO-ENERGY, BIOENERGY & ENVIRONMENTAL TECHNOLOGIES

15:00 - 15:15 PRESENTATION

From Wastewater to Safe Water Reuse: Modular Biological Treatment and On-Site Anolyte Disinfection for Circular Water Management in Oman

Nadine Blaser
Senior Strategic Advisor
Waves Technology & Services LLC

15:15 - 15:30 PRESENTATION

New Approaches of Sustainable Biopolymer Applications for the Conservation of Heritage in Oman

Dr. Eman Taha
The Grand Egyptian Museum, Egypt

15:30 - 15:45 PRESENTATION

The Influence of Co-application of Elemental Sulfur with Biochar and Compost on Greenhouse Gas Emissions

Bashair Al-Maghatasi
Sultan Qaboos University (SQU)

15:45 - 16:00 PRESENTATION

Challenging the Clay and Synthetic Paradigm: Global Evidence Synthesis and HYDRUS-1D Modelling of Phytocapped Landfills as Long-Term Sustainable Barrier System

Dr. Nadun Bulathge
Central Queensland University, Australia

16:00 - 16:15 PRESENTATION

Sustainable Valorization of Moringa oleifera Seed Cake for Carwash Wastewater Treatment and Oil as an Antibacterial Agent

Dr. Patil Pandurang
UTAS

16:15 - 16:30 PRESENTATION

Solar-Responsive Date-Palm Biochar Capsules Loaded with Salt-Tolerant Beneficial Bacteria for Remediation of Saline and Pesticide-Stressed Soils

Rayyan Alkharusi
University of Szeged, Hungary

MEETING ROOM 14 — CIRCULAR MATERIALS, CONSTRUCTION & RESOURCE RECOVERY

11:00 - 11:15 PRESENTATION

Sustainable Repurposing of Copper Cables E-Waste in Construction Materials and Energy Recovery: Life Cycle Assessment (LCA) Approach

Dr. Omer Aga
Imam Abdulrahman Bin Faisal University, Saudi Arabia

11:15 - 11:30 PRESENTATION

Transformation of Green Waste into Sustainable Materials: Date Palm & Mesquite Fiber Reinforced Polymer Bio-composites

Prof. Khalid Alzebdeh
Sultan Qaboos University (SQU)

11:30 - 11:45 PRESENTATION

Biodegradable Gum Arabic-Based Suppression of Bauxite Dust Emissions from Stockpiles and Material-Handling Systems

Dr. Ismail Anil
Imam Abdulrahman Bin Faisal University, Saudi Arabia

11:45 - 12:00 PRESENTATION

Biological Recovery of Rare Earth Elements (REEs) from E-Waste and Other Sources

Prof. Raeid Abed
Sultan Qaboos University (SQU)

12:00 - 12:15 PRESENTATION

The Impacts of Climate Change on Drought in the Arab Region

Dr. Yousef Marai
Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

12:15 - 12:30 PRESENTATION

Towards Circular Road Pavement Materials in Oman Using RAP and a CNSL Bio-Binder

Omar Al Maskari
RWTH Aachen University, Germany

TUESDAY 15 SEPTEMBER 2026 | MEETING ROOM 14

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MEETING ROOM 14 CONTINUED

CIRCULAR MATERIALS, CONSTRUCTION & RESOURCE RECOVERY

12:30 - 14:00 LUNCH BREAK AND NETWORKING

14:00 - 14:15 PRESENTATION

Balancing Workability and Mechanical Performance of Mortar Incorporating Iron Ore Tailings as Partial Sand Replacement

Dr. Salma El-Maghawri
Sultan Qaboos University (SQU)

14:15 - 14:30 PRESENTATION

Fly Ash–Derived Zeolite Nanocatalysts for Sustainable Crude Oil Cracking: Industrial Waste Valorization in Oman

Dr. Wafa Al Rawahi
UTAS-Muscat

14:30 - 14:45 PRESENTATION

The Climate Change Atlas for Mashreq Area

Eng. Bashar Arabi
Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

14:45 - 15:00 PRESENTATION

Construction and Demolition Waste Recycling in Green Concrete

Dr. Ahmed Salahedeen Nassef
University of Buraimi

15:00 - 15:15 PRESENTATION

Conductive Biochar/nZVI Composite from Mesquite Trees as an Advanced Strategy to Enhance Anaerobic Digestion of Sewage Sludge in Oman

Dr. Zahra Al Hasani
Sultan Qaboos University (SQU)

15:15 - 15:30 PRESENTATION

Sustainable Asphalt Development Using Food-Waste-Derived Biochar and Peridotite for Carbon Reduction from Environment

Dr. Pankaj Sah
UTAS-Muscat

15:30 - 15:45 PRESENTATION

Novel Structured Biodegradable Cellulosic Sponges from Agricultural Waste for Efficient Oil–Water Separation and Water Purification

Dr. Jana Rammal
Lebanese University, Lebanon

15:45 - 16:00 PRESENTATION

Fungal Bioleaching for Economical Recovery of Rare Earth Elements from Omani Lateritic Soils

Shaima Al-Saidi
Sultan Qaboos University (SQU)

16:00 - 16:15 PRESENTATION

Upcycling Oil Drilling Cuttings into CO_2-Capturing Construction Bricks: A Circular Economy Approach to Oilfield Waste Valorization

Maather Al Shahi
ELTE University, Hungary

16:15 - 16:30 PRESENTATION

Sustainable Conservation of Cultural Heritage: Integrating Microbial Control, Green Materials, and Circular Economy Principles

Ahmed Sallam
Aswan University, Egypt

16:30 - 16:45 PRESENTATION

Performance and Sustainability Assessment of Concrete Incorporating Recycled Construction Waste Fines for Circular Economy Applications in Oman

Dr. Mohammed Ihtesham Hussain
UTAS-Muscat

CLOSING CEREMONY · 18:00 - 22:00