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HOSTED & ORGANISED BY



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

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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.

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
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09:15 - 09:45 Keynote Speeches

WELCOME SPEECH 5'  HE. Dr. Abdullah bin Abdullah Al Amri President Environment Authority 	OCW VIDEO 5' ▶ OCW FILM	RECORDED SPEECH 5'  H.E. Jasem Mohamed AlBudaiwi Secretary-General Gulf Cooperation Council (GCC) 
KEYNOTE SPEECH 5'  HE. Mukhtar Babayev Representative of the President of the Republic of Azerbaijan for Climate Issues 	KEYNOTE SPEECH 5'  Dr. Roberta Boscolo Climate & Energy Leader WMO 	KEYNOTE SPEECH 5'  Muhammad Taimur Manager, Implementation Coordination UNFCCC Secretariat, Bonn 

09:45 - 09:50 Launch of «Green Branch Award»

09:50 - 09:55 MOU Signing

09:55 - 10:00 Keynotes Appreciation

10:00 - 10:05 Sponsor Appreciation

10:05 - 10:30 Exhibition Tour & Coffee Break

10:30 - 11:30 Ministerial Panel: Road to COP 31
Opens with a recorded message from the COP 31 Presidency



MODERATOR
HH. Adham Al Said
Partner
The Firm for Business and
Economic Consulting



**HE. Dr. Abdullah bin Abdullah
Al Amri**
President
Environment Authority



**Dr. Shezra Mansab Ali Khan
Kharal**
State Minister for Climate Change
Pakistan



The Hon Chris Bowen MP
Minister for Climate Change and Energy
· Recorded COP 31 Presidency message
Australia



HE. Sumaira Chowdhury
Representative
UNICEF Oman



HE. Mukhtar Babayev
Representative of the President of the
Republic of Azerbaijan for Climate
Issues



Dr. Roberta Boscolo
Climate & Energy Leader
WMO



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



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



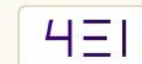
12:40 - 13:00

INVITED TALK

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



David Critchley
Founder & Chairman
4 Earth Intelligence



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

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 - 13:00

INVITED TALK 6

AI-Assisted Sustainable Oil Spill Remediation: Reducing Environmental Toxicity
and Carbon Footprint in Vulnerable Gulf Ecosystems



Dr. Sergey Serry

Head of R&D
Arva Greentech Remediation AG, Switzerland



13:00 - 14:00 LUNCH BREAK AND NETWORKING

14:00 - 14:15

PRESENTATION

Optimization and Analysis of Sustainable Integrated Methanol
Reforming and Electricity Generation Process

Dr. Swaprabha P. Patel

Qatar University

14:15 - 14:30

PRESENTATION

Design and Fabrication of a Hybrid Bacterial-Microalgae Bio-
Electrochemical System (BEC) for Effective Removal of
Pollutants from Industrial Wastewater

Dr. Mohammed Zafar

UTAS-Sur

14:30 - 14:45

PRESENTATION

Model Development for CO₂ Capture in the Cement Industry
Using Aspen Plus

Aiman Al Harrasi

National University of Science and Technology

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)

MEETING ROOM 13

CONTINUED

WASTE-TO-ENERGY, FUELS, CATALYSIS & CCUS

15:00 - 15:15 PRESENTATION Influence of Waste-Related Emissions and Meteorological Factors on PM_{2.5}, PM₁₀, 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 CO₂ 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	16:45 - 17:00 PRESENTATION Biodiesel Synthesis from Date Seed Oil Using Camel Dung as a Novel Green Catalyst Dr. Raiedhah Al Saiari Najran University, Saudi Arabia

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 
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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 Preliminary Investigation of Primary Battery Consumption and Their Waste Management Strategies in Oman Ghiyatha Al-Wardi UTAS-Sur	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

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

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

Samar Shanti

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

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 CO₂ 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 Ethanolysis Dr. Mohamed Al Hinai Sohar University	14:30 - 14:45 PRESENTATION Comparative Leachate Quality Analysis of Engineered Landfills in Oman Using Revised Leachate Pollution Index (r-LPI) Salim Al-Zadjali Sultan Qaboos University (SQU)	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

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 Impact of Compost Application on Soil Carbon and Nitrogen Losses: Field Study of Greenhouse Gases Emission Abir Al Majrafi Sultan Qaboos University (SQU)	16:00 - 16:15 PRESENTATION Techno-Economic Feasibility of CO₂ Utilization for Synthetic Fuel Production Using Renewable Hydrogen in Oman Fahad Al Balushi 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 Alzebedeh 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 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	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



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

Upcycling Oil Drilling Cuttings into CO₂-Capturing Construction Bricks: A Circular Economy Approach to Oilfield Waste Valorization

Maather Al Shahi

ELTE University, Hungary

14:45 - 15:00

PRESENTATION

Construction and Demolition Waste Recycling in Green Concrete

Dr. Ahmed Salahdeen 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

Development of a Low-Cost Plastic Waste Melting System for Sustainable Composite Block Fabrication

Dr. Mudassir Syed

UTAS-Salalah

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