

Concurrent Technical Sessions

Based on The Technical Session Schedule

Session No.13

TRACK (1)

Auditorium 1, Ground floor,
B105

Chair: **Dr. Ahmad Alkhaleefah**

Sustainable Manufacturing and Industrial Ecology

Sustainable and Ecological Materials: Sodium-Ion Conducting Solid Electrolytes for Solid-State Rechargeable Batteries. *Ravindra Kumar Gupta*

Blockchain-based Decentralised Application (DApp) towards Achieving a Hunger-Free World. *Bilyaminu Auwal Romo, Lucian Duta, Mhd Saeed Sharif, Hisham AbouGrad, and Ajaz Ali*

Blockchain, InsurTech, and Smart Contracts: A Review of Compliance and Digital Shifts. *Lucian Duta, and Bilyaminu Auwal Romo*

Turning CO2 into a stone: An innovative approach to mitigate CO2 emissions. *Abdulwahab M Alqahtani, Mouadh Addassi, Eric Oelkers, and Hussein Hoteit*

Environmental applications of Graphene based aerogels. *Halit Cavusoglu*

Sustainability in Saudi factories: Using natural ventilation in plastic and furniture factories as a case study. *Ahmad Alkhaleefah*

Sustainable Product Development: Integrating Market Dynamics and Consumer Behavior in Design Strategy. *Mahmood Alkindi*

Woodcarving in the Digital Age: A Gateway to Sustaining Cultural Identity. *Siti Aisyah Binti Muhammad, Noor Hanita Abdul Majid, Tengku Fauzan Tengku Anuar, and Sharifah Fairuz Syed Fadzil*

FRP Composites: New Directions for Sustainability. *Omar Alajameh*

Session No.14

TRACK (2)

Auditorium 2, 2nd floor,
B105

Chair: **Dr. Zainab A.Mohsen**

Sustainable Construction and Resilient Infrastructure

Methodologies to assess the environmental impact of 3D Printed Buildings using construction waste. *Zainab A.Mohsen Eid*

Empirical Evaluation of Double Electrochromic Glazing Window thermal and visual performance in Hot Desert Climate. *Rim Hafnaoui, Elina Binti Mohd Husini, Aritra Ghosh, and Mohd Zin Kandar*

Impact of Nitrogen dioxide (NO2) in the formation of tropospheric Ozone in India. *Suraksha B.N, and Sarika Bahadure*

Developing and Testing Eco-friendly Lightweight Foam Concrete with Fly Ash. *Sherif El Gamal*

Improving Indoor Air Quality through Coated Concrete: Sustainable Materials Application. *Zeinab Elhassan, and Arata Abbas*

A step toward sustainability by developing a correlation between destructive and nondestructive compressive strength of hybrid fiber reinforced concrete. *Fawad Ahmad, Mohammed Saleh Nusari, Mohammad Nizamuddin Inamdar, Musa Adamu, and Yasser Mansour*

Effect of Aspect Ratio on the Failure Behaviour of RACFST Columns. *Ashik Ahmed, and Mahbuba Begum*

Framework for Facility Management in Public Education: Integrating Outsourcing and Technology for effective Operations. *Khaled Alrasheed, Ehab Soliman, Heba Toma, and Haya AlBader*

Session No.15

TRACK (5)

PS Hall, B 101, G Floor

Chair: **Dr. Israa Fardous**

Sustainable Built Environment Design: Cultural and Historical Perspectives

Advancing Social Sustainability Practices in Saudi Arabia Higher Education :Sustainability Challenges towards the Saudi Vision 2030 in Built Environment Programs. *Afsina Abbasi, Israa Fardous, and Renad Asekaif*

Innovating Building Design with the Venturi Effect: Exploring Implications for Energy Efficiency and Environmental Sustainability. *Hala Sirror, Salma Dwidar, and Amani Derbali*

Sustainable Approaches in Old Riyadh Housing. *Silvia Mazetto, and Nouf Alaqeel*

Influence of balconies on the energy efficiency of multi-unit residential buildings (MURBs): A review. *Anber Rana, and Humera Mughal*

Design Strategies for Sustainable Energy in the Gulf Region. *Aly Osman, Nasser Al-Azri, and Saleh Al Saadi*

Analysis of Takung 1 Bridge (Dharmasraya) Capacity by using the Rating Factor Method. *Masrilayanti Masrilayanti, Lidiya Lidiya, and Aldio Wahyu*

Disaster Management and Mitigation: Preventing Losses Caused by Urban Flash Floods Case Study, Riyadh, Saudi Arabia. *Yenny Rahmayati, and Sarah Alansary*

Sustainable Trends and Awarded LEED 2009 Credits to Existing Buildings in Saudi Arabia: A Comprehensive Analysis. *Hala Sirror*

Session No.16

TRACK (6)

Hall 1-A01, B 105, 1st Floor

Chair: **Dr. Houda Alhoussari**

Policies, Regulations, and Economics for Achieving SDGs

ESG Integration and Corporate Sustainability. *Houda Alhoussari*

Examining Oil Palm Smallholders' Capacity, Perceived Capability, And Achievement Of Sustainable Development Goals (SDGs). *Hendrik Lamsali, Mohamed Najib Salleh, Halim Mad Lazim, Rosman Iteng, Shaufique Fahmi Ahmad Sidique, and Diana Chalil*

Sustainable Development Goals in Higher Education Institutions Operations: A Holistic Strategic Framework for the Implementation and Monitoring of Policies and Regulations. *Norah Al Subait*

An Expert Decision Supporting System for Evaluating the Financial Performance of Construction Companies. *Reem khedr, and Ahmed Abdealim*

Space as a driver of sustainable development: the role of Saudi Arabia. *Olga Volynskaya*

AI-based Gesture Recognition for Sign Language Translation. *Sean Trainor, and Muhammad Khalid*

Integrating Advanced Healthcare AI into Higher Education of Smart Cities: Skin Cancer Classification with Custom Vision Transformers. *Syed Usman, Syed Nehal Hassan Shah, Nevena Dicheva, Ikram Ur Rehman, and Samia Zaib*

Aspect-Based Sentiment Analysis of User Reviews for Game-Based Mobile Applications on Computer Programming for Children. *Nurha Yingta, Nevena Dicheva, Aamir Anwar, and Ikram Ur Rehman*