**Session No.1**

**TRACK (1)**

**Chair:** Prof. Tamir Sebaey

**Sustainable Manufacturing and Industrial Ecology**

- Numerical approach for 3D moldboard plow design. Imen Lahmar
- Scheduling Parallel Machine Robotic Cells with Energy Consumption Objective. Nakan Gultekin, Roaid Zaier, and Amur Al-Yahmadi
- Chemically Modified Rice Husk as a Green Filtration Media for Chemical Oxygen Demand Removal from Pulp and Paper Effluents. Ahmad K. Badawi, Randa Osman, and Raouf Hassan
- Assessment of electricity production using organic Rankine cycle (ORC) activated by a combined gas turbine and rare waste heat recovery. Hamza Sammar, Sofiane ABBERANE, and Jamel Orfi
- Utilising Waste Expanded Polystyrene for Cleaning Fuels. Adnan Mujahid, Tajamal Hussain, and Azeel Almal
- Sustainable Synthesis of ZnO NPs Via Nonthermal Plasma and Its Corrosion Inhibition Activity on X60 API SL in 1M HCL Media. Nourelhouda Bounedjarg
- Multidisciplinary Optimisation of Power Device Sizing to Improved Flight Duration and Weight Reduction of Solar-Powered Aircraft. Bazhir Safyan and Danjuma

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**Session No.2**

**TRACK (2)**

**Chair:** Prof. Zubair Ahmed

**Sustainable Construction and Resilient Infrastructure**

- Optimizing Transitional Season Comfort: A Case Study on Thermal Performance of Open Courtyard and Walk-way Plaza Designs at Prince Sultan University Women’s College, Riyadh. Sharifah Fadzi, Siti Aisyah Binti Muhammad, and Mansour Alouf
- Secure Accident Detection and Monitoring Systems - An Arduino based Case Study. Anees Ara, Sarah Algida, Reema Albatfah, and Jood Bajouda
- Material passports for the End-of-life stage of buildings: A study on the challenges of material passports adoption in GCC. Salmaen Dar Amre, Isra Al Khoofat, Fatim Samara, and Salwa Albeheiry
- Assessing the Benefits and Perceptions of Indoor Farming in Hot Climates. Daniel Affoye and Khirea Tabel Aouf
- Potential for Utilization of Sachet Water Plastic Waste for Rural Road Construction in Nigeria. Ahmad Jirar, Aminu Suleiman, Gambo Haruna Yunusa, and Awasu Shafi Ibrahim
- Enhancing Tensile Strength of Asphalt Concrete Through Rock Wool Inclusion for Sustainable Solution. Nasi Shafaq
- From Scraps to Soil Enrichment: Rethinking Food Waste and Sludge for a Greener Agriculture. Muhammad Faseeh Memon, and Zubair Ahmed Memon
- Policy Development For Sustainable Smes: A Case From Kingdom Of Bahrain. Laaleh Alalai
- Predicting stage-discharge relationship for sharp-crested Triangular Labyrinth weir. Mohammad Danish Mustafa

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**Session No.3**

**TRACK (3)**

**Chair:** Dr. Waldy Dyab

**Innovations in Renewable Energy: Powering the Future**

- Advancing Sustainable Defense Research with Polarimetric Radar Innovations. Mourad Rizk, and Waldy Dyab
- Feasibility Study of Wind Energy Project in Dahran Area. Samar Derirezvia, and Salaur Chowdhury
- Modeling of Power Flow Systems of Medium Electric Bus to Estimate the Energy Consumption. Metha Ishtiaque, Muhammad Awel Dhiaa, and Bentang Arifel Budiman
- Co-tiing characteristic of wood bark with coal blends in 110 kWe Circulating Fluidized Bed Boiler: An Experimental Study. Nur Cahyo, Desy Sulistiyowati Hidayat, and Muhammad Iqbal Felani
- Thermal and electrical performance of a floating Mono PERC solar panel on artificial water bodies: An experimental investigation. Mutia Manokar Am
- Supercritical Carbon Dioxide Based Power Generation Using Solar Parabolic Trough Collector. Mohammed Rihana, Hassan Alshehi, and Jamel Orfi

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**Session No.4**

**TRACK (4)**

**Chair:** Dr. Monica Moscafell

**Future Cities: Innovative Approaches for a Sustainable Tomorrow**

- Biophilic Urbanism for Sustainable and Resilient Neighborhood. The case of Al Murabba, Riyadh. Monica Moscafell, Njoud Alabram, and Razan Aldowdow
- The Future of Healthcare: On Designing 5G & Beyond Indoor Neutral-Host for Smart City Medical Facilities. Alhanouf Alhanouf, Eman Aloal, Maha Almutairi, Ghaida Alessa, and Yazan Allawi
- Mechatronic Design and Development of Autonomous Mobile Robotics System for Road Marks Painting in Smart Cities. Chao Ma, Mohammed A. H. Al, Yusuff Nukman, and Bushroa Abd Razak
- Enabling Smart Sensing Systems with Thread Protocol for IoT Connectivity and Cloud Integration. Khalid Dahyori, Sahib Din Alotal Khattak, Mostafa Nasralla, Maged Abdullaho Esmail, and Mudasser Iqbal
- Designing of Meta-barriers Using a Novel Cloaking Method to Aftertuate Strong Ground Motion. Mohamed Ezdat, Umer Waqas, and Marya Iqbal
- Smart City Analytics. Mohammed Rizk, and Reem Alhamam