

# **2024 OkIP International Conference on Green Research & Technology (CGRT)**

**Tuesday, 1 October 2024 - Thursday, 3 October 2024**

**Tiako Center, Oklahoma City, OK, USA & Online**

## **Scientific Tracks**

## **Green Generation/Management**

Energy Management/Storage/Recycling  
Electric/Hybrid Vehicles | Green Energy Boost  
Hydrogen, Fuel cells, Energy Carriers  
Energy Harvesting | Biofuel Generation  
Wind/Geothermal Power | Efficient Lighting  
Solar/Biomass Energy | Efficient Power  
Combustion Fuels and Renewable Sources  
Uninterruptible Power Supply  
Grid-Oriented Energy Systems  
Circuitry for Energy Harvesting/Scavenging  
Energy Reduction/Conservation  
Innovative HVAC Systems | Photovoltaic Cells  
Power Quality/Filtering Techniques  
Energy System Operational Strategies  
Advanced Metering Infrastructure  
Power Distribution Grids | Hydropower  
Sustainable School/Education  
Battery Materials/Mechanisms/Optimization  
Pervasive Energy Services

## **Sustainable Designs/Innovations**

Strategies for Sustainability  
Performance Evaluation | Wearable Electronics  
Green Building-Components/Systems-Mngmt  
Efficient Circuit Design for Energy Harvesting  
Ergonomics and Sustainability  
Building and Low Environmental Impact  
Sustainable Building Design/Construction  
Home and Commercial Automation  
Ocean-Wave/Under-Water Energy Harvesting  
Energy-Efficient Renovation  
Clean Energy Architectural Solutions

## **Smart Systems/Infrastructures**

Smart Construction/City/Vehicle  
Grid Modernization | Efficient Wind Turbines  
Digital Communication and Control  
Evolution/Integration of Renewable Energy  
Reduction of Emission Energy Sources  
Smart Grids/Microgrids/Meters/Appliances  
Internet of Things (IoT) and Sustainability  
Smart Energy Management Systems  
Smart Urban Development  
Intelligent Transportation Systems  
Smart Manufacturing/Factory  
Unmanned Aerial Systems and Sustainability

## **Legal/Social/Economic Issues**

Emerging Standards | Ecosystem Monitoring  
Carbon footprints and Metering  
Reduced Carbon Emission | Climatic Data  
Regulatory Issues and Standards  
Safety and Protection of the Environment  
Developed/Emerging Country Tech./Issues  
Spill Prevention and Control  
Deregulation and Electric Power Market  
Climate Change | Renewable Energy Sources  
Green Business Practices | Airborne Substances  
Environmental Pollution Issues  
Ecosystem Modeling | Green Protocols  
Nuclear and the Environment

## **Green IT/Computing**

Energy-efficient Protocols and Networking  
IT de-Manufacturing | Disaster Control  
Legitimate IT Recycling | Sustainable Software  
Energy Efficient IT solutions & Algorithms  
Green Software Design/Development  
Energy Efficient Algorithms  
Sensor Networks Usage | Sustainable Big Data  
Network Concepts | Efficient Data Centers  
Climate and Disaster Monitoring  
AI & Expert Systems for Sustainability  
Optimization techniques for energy applications  
Green Cloud/IoT/Communication Technologies  
Energy-Efficient Data-Centers/Networks  
Energy-Efficient Machine Learning Approach

## **Biomedical/Biotechnology**

Digital Health/Wellness  
Advances in Pharmaceutical-Industry/Imaging  
Environmental Protection | Biodegradation  
Portable Medical/Biomedical Devices  
Chemical/Agro-Chemical Safety  
Devices for Disabled/Handicapped  
Marine Microalgae Harvesting | Detoxification  
Biodiesel Production/Agricultural Crop  
Electrochemistry Renewable Fuel  
Pollution Biodegradation | Soil Contamination  
Organic Photovoltaic Cells | ...

## **Forecasting/Water/Sanitation**

Forecasting Techniques and Predictions  
Weather Analysis | Life/Property Protection  
Societal impacts of weather | climate monitoring  
Weather Accessibility and Understandability  
Water Systems and Sustainability  
Sanitation/Water supply| Sinkhole Identification  
Gaseous Benzene Remediation