



Tuesday, 4 February

- 7:30am **Registration and Refreshment**
Building 1
- 9am **National Youth Symposium**
Dukhan Auditorium
- 9am **Welcome Speech**
» Dr. Rachid Benlamri, Vice President Academic Affairs, University Of Doha for Science and Technology
- 9:05am **Opening Note**
» Mr. Saleh Al-Rumaihi, Head of the Technical Office, Qatar's Food Security Department, Ministry of Municipality
- 9:15am **Introduction to FAO Youth - World Food Forum and the Qatar Chapter**
» Mr. Kazuki Kitaoka, World Youth Lead, UN FAO
- 9:30am **Panel Discussion**
» Mr. Victor Muiru, Head of Local Youth Action, UN FAO's World Food Forum
- 10:20am **Closing of Qatar National Youth Symposium**
» Mr. Abdulrahman Al Kuwari, Chair, FAO WFF Qatar National Chapter
- 10:25am **Coffee Break**
Building 1
- 10:50am **WFCC Arab Youth Competition**
Dukhan Auditorium
- 10:50am **Welcome speech**
» Dr. Vladimir Brusic, Vice President for Applied Research and Graduate Studies

- 11am **WFCC Arab Youth Competition Overview**
» Dr. Amin Esmaili, Associate Professor, Chemical Engineering Department College of Engineering and Technology
- 11:10am **WFCC Arab Youth Undergraduate Presentations**
» Undergraduate Students
- 12:20pm **Lunch Break**
Building 1
- 1:20pm **WFCC Arab Youth Competition**
Dukhan Auditorium
- 1:20pm **WFCC Arab Youth Postgraduate Presentations**
» Postgraduate students
- 2:20pm **Closing Remarks**
» Dr. Amin Esmaili
- 2:35pm **Judges Deliberation**
» Dr. Amin Esmaili

Wednesday, 5 February

- 7:30am **Registration**
Building 1
- 8am **Research Networking and Refreshments**
Building 1
- 9am **Welcome Note**
Dukhan Auditorium



Continued from **Wednesday, 5 February**

» Dr. Salem Al-Naemi, President of the University of Doha for Science & Technology (UDST), Doha, Qatar

9:05am **Opening Note**
Dukhan Auditorium

» Ministry of Environment and Climate Change - Minister

9:10am **Keynote Speaker**
Dukhan Auditorium

Title: Qatar National Food Security Strategy

» Dr. Masoud J. M. Al-Marri, Director, Food Security Department
Ministry of Municipality, Doha, Qatar

9:30am **Panel Discussion**
Dukhan Auditorium
Chaired by: Dr. Haruna Moda

Pathways to Resilience for Climate Change: Strategies for Sustainable Community in Arid Region

10:05am **Award Ceremony and Group Photo**
Dukhan Auditorium

10:20am **Coffee Break and Poster Exhibition**
Building 1

Regulations on Climate Change and Food Security

» [Ms. Yasmine Ouali](#)

Climate-Smart Irrigation Strategy: Optimizing Water Use for Sustainable Agriculture in Qatar

» [Ms. Sondos Hassanin](#), Ms. Louise Anne Ramirez, Ms. Ons Kacem, [Ms. Aisha Yusuf](#), Ms. Abida Naveeda

Preparing for an Unpredictable Risk for Water Scarcity in the Gulf

» [Ms. Maryam Al Jehani](#)

Disrupting the Carbon Cycle: Biochar Injection in Depleted Reservoirs for Carbon Sequestration and Sustainability

» [Ms. Rawdha Khalfan Ali Khalfan Alhammadi](#), Mr. Khalid Hussain, Mr. Shamma Mohamed Khalifa Alshamsi, Ms. Amna Suhail Fadhel Kamel Alhashmi

Sustainable Capacitive Deionization with Recycled Zinc-Carbon Battery Electrodes

» [Mrs. Mai Hassan](#), Dr. Manar Hazaa, Prof. Gehad Hamdy, Prof. Fatma Taher, Prof. Nageh Allam

PYROLYSIS FOR FOOD WASTE INTO SUSTAINABLE RESOURCES

» [Ms. Firdous Zain](#), Ms. Haifa Mahsood

Innovating to Preserve and Conserve

» [Mrs. Nour YAZBECK](#)

The Nexus between Sustainability and Economic Development: Balancing Environmental and Business Needs in the Face of Climate Change

» [Dr. Rukhsora Kholikova](#)

Animal Waste for Biofuel Production

» [Ms. Maather Al Sharji](#), [Ms. Ghaida Al Hashmi](#), Ms. Alzahra Al Ghammari, Dr. Amal Al Rahbi

Ensuring Food Security during Climate Change Challenges: A Sustainable Agricultural Approach

» [Ms. celine Roupael](#)



Continued from **Wednesday, 5 February**

Alternative energy post-harvest machinery

» [Prof. Abdo Hasan](#)

MEDIA INTERROGATION OF MISINFORMATION AND DEMYSTIFICATION OF CLIMATE CHANGE PERCEPTIONS IN DEVELOPING COUNTRIES

» [Dr. Olaleye Emmanuel](#)

Impact of Climate Change on Soil Pathogens, Crop Yields, and Food Security

» [Mr. Abdulla Ansari](#), [Dr. Ravi Rangarajan](#)

Unlocking Desert Plants' Potential for Climate Change Adaptation and Food Security

» [Ms. Alshayma Al-Thani](#), [Ms. Asma Ghafoor Jan](#), [Ms. Madhurima Chatterjee](#), [Ms. Yasmin Hageer](#), [Dr. Farzin Shabani](#), [Dr. Ahmad Alqudah](#)

The role of agricultural insurance as an input to contribute to achieving food security - a reference to the Algerian experience

» [Prof. HASSANI HOCINE](#), [Prof. Mohamed Himrane](#), [Dr. Fatima Mekhlouf](#)

Bio-Coagulant-Flocculants Use in Pretreatment Desalination process and their future approaches applying the response surface methodology (RSM) and the Box-Behnken design (BBD)

» [Prof. Nassila SABBA](#), [Dr. Rokia Youcef](#), [Prof. Mourad TALEB Ahmed](#)

Effect of Operational Parameters on High-Value Single Cell Protein Production from Vegetable Waste

» [Mrs. Zukhruf Asim](#), [Dr. Hafiz Muhammad Aamir Shahzad](#), [Prof. Fares Almomani](#), [Dr. Kashif Rasool](#)

Optimal Path Selection for Water Tunnels Based on Elevation Gradients

» [Mr. Saad Alkentar](#), [Prof. Basem Assahwa](#), [Prof. Abdulkarim Assalem](#)

Open Ocean Aquaculture Vessels: An Emerging Frontier for Sustainable Fish Production that Can Meet Sea food Demand in the State of Qatar

» [Dr. Yasen Harrye](#), [Mr. Ahmed ABDALLA](#), [Dr. Hassan Mahasneh](#), [Dr. Nagi Abdussamie](#)

Improving Water Conservation and Management for Sustainable Agriculture in Arid Soil Ecosystems

» [Dr. Abdulaziz G. Alghamdi](#)

Design and development of soil moisture-based solar-powered LoRaWAN irrigation system

» [Ms. Bayan Katrmiz](#)

Conflicts Sharpen the Fragility of Water and Food Systems in Sudan Amidst Climate Change

» [Dr. Muhammad Khalifa](#)

Valorization of residue of supercritical extraction of oil onion seed as low-cost natural coagulants for Methyl green removal in water

» [Prof. sihem arris](#), [Mr. benhamouda farouk](#), [Mr. Djaloudi Mouad](#), [Mr. Sakhri Hitem](#), [Mrs. Aissaoui Halima](#), [Mrs. Amina Abbaz](#), [Prof. Abdeslam Meniai](#)

Hydroponic evaluation of treated wastewater and well water on wheat growth and production.

» [Dr. Fatima AlHamedi](#)

Soilless and Nutrient Solution Management Approaches for Sustainable Production of Green Forages in Dryland in the Arid Region

» [Mr. Wasef Alzayadneh](#), [Dr. Mohammed Alyafei](#)

The evolution of the reproductive mode in the Carassius auratus complex

» [Ms. Reem Al-Haidose](#)



Continued from **Wednesday, 5 February**

GLOBAL WARMING, AGRICULTURE AND FOOD SECURITY: A REVIEW OF IMPACT OF RISING TEMPERATURE ON CROP YIELDS AND FOOD SECURITY IN NORTHEASTERN, NIGERIA

» [Mr. Kachalla Malabe](#)

Machine learning screening tool for the prediction of Removal of Water Hardness Performance in desalination pretreatment process

» [Dr. Rokia Youcef](#), Prof. Nassila SABBA, Prof. Mourad TALEB Ahmed, Prof. Amel BENHADJI

Effect of global warming on the interaction of biotic and abiotic factors along the Algerian coast

» [Prof. Fouzia Houma Bachari](#), Dr. Romaiassa Harid, Dr. Lamri Nacef, Prof. Nour El Islam Bachari

Awareness and Knowledge of Sustainable Development in Qatar: A Survey of University Students

» [Dr. MAIID Ibrahim](#), Dr. Mohammad ALSheyab, Dr. Mohammed Chabi

Coagulation-Ultrafiltration of seawater enriched with algal organic matter (AOM)

» [Prof. Djamel Abdessemed](#)

Exploring Water Policy by Using Qualitative and Thematic Analysis: Qatar Case Study

» [Ms. Iman Abdelhadi](#), Prof. Gordon Mckay

Water policies, governance and climate change adaptation in Oum Zessar Watersshed (Province of Medenine,south-east of Tunisia)

» [Dr. Riadh Bechir](#)

Aquaponics Systems Integrating AI for Balanced Nutrient Distribution

» [Ms. Aya Aljaja](#), [Ms. Rawaa ElQasass](#), Ms. Hind Soubhi

Microplastic Pollution in Salt: Assessing Environmental and Health Risks in Qatar

» [Ms. Ala Alardah](#), Ms. Asma Mohamed, Ms. Marwa Al-Ani, Ms. Sjoood Makeen, Dr. Noora Al-Qahtani

Aerial Solutions for Plant Disease and Pest Monitoring: A Review of Drone-Based Systems

» [Mr. Mohammed Hatem Ali Darwish](#), Dr. Uvais Ahmed Qidwai, Dr. Noora Al-Qahtani

Smart Agriculture in Arid Climates: Developing an IoT-Driven Autonomous Greenhouse with Fuzzy Logic Con-trol

» [Mr. Aman Mohammed](#), Dr. Uvais Ahmed Qidwai, Dr. Noora Al-Qahtani

Sustainable Packaging and Waste Management Strategies: Enhancing Food and Water Security through Recycling Innovations

» Mr. Mohammed Abul Hassan, [Mr. Mennatalla SheikhMohamed Saifeldin kuna](#), Mr. Omar Muhammad Shahid, Dr. Mostafa Hussein Ramadan Sliem, Dr. Noora Al-Qahtani

Unveiling the Impact of pH and Temperature on the Leaching of PAEs and BPA from Polycarbonate Materi-als

» [Ms. Marwa Al-Ani](#), Dr. Mohamed Hassan, Dr. Noora Al-Qahtani

11am

Keynote Speaker

Dukhan Auditorium

Title: Understanding streamflow generation for water security in the face of climate change

» Prof. Jeffrey J. McDonnell, Professor and Associate Director, Global Institute for Water Security School of Environment and Sustainability, University of Saskatchewan, Canada

11:45am

Lunch/Prayer Break

Building 1



Continued from Wednesday, 5 February	
1pm	Breakout Session: Climate Change Impact <i>Mesaieed- Theater</i>
1pm	Minimizing the Impact of Acid Rain on Crops and Plants by Reducing the Sulfur Oxide Emissions from the Combustion of Organic Sulfur Compounds in Petroleum Fuels. » Dr. Hassan Hijazi , Ms. Julianne Caday, Ms. Noor Abdelaziz, Ms. Meera Alazem
1:15pm	Progress of Adapting VarMix® Technology for Ensuring Food Security in Unfavorable Areas in the Philippines » Ms. Imeldalyn Pacada , Dr. Loida Perez, Dr. Roel Suralta, Dr. Jesusa Beltran, Dr. Jonathan Niones, Ms. Evelyn Bandonill, Dr. Nenita Desamero, Ms. Juliet Rillon
1:30pm	Experimental study to optimize the efficiency of the Oscillating Water Column wave energy converter by enhancing the air chamber design. » Mr. Mamdouh Elmallah , Dr. Mohamed Shouman , Prof. Nourhan Ghoneim
1:45pm	Temporal Patterns and Intra-seasonal Isotopic Characteristics of Indian Summer Monsoon precipitation in Lucknow, India » Dr. Prasanna K, Dr. Anurag Kumar, Dr. Anupam Sharma, Dr. Supriyo Chakraborty, Dr. Ravi Rangarajan
2pm	Modeling and Simulation of Rainfall Prediction in Climate Data Using LSTM, GRU, and N-BEATS: A Comparative Analysis » Dr. Murad Yaghi , Dr. Huthaifa AlOmari, Ms. Shahed Nawaiseh
2:15pm	Integrating Embodied Carbon Policies in Qatar's Climate Action Framework » Mrs. Dilba Rayaru Kandiyil , Prof. Monower Sadique
1pm	Breakout session: Food Security & Sustainability <i>Laffan- Theater</i>

1pm	Evaluation of salt tolerance genes expressed in transgenes Nicotiana » Dr. Mona Abloushi
1:15pm	Food Security Challenges between Norms and Net-Zero Climate Future "Sustainable Diet Trends" » Mrs. Mai Magdy
1:30pm	Climate-Smart Marketing Strategies and Market Outcomes for Commercial Coffee Farms in Uganda » Mr. Lumu Emmanuel Roy Musingo, Dr. Faith Mugisha Ahabyoona , Prof. Kurobuza Eddy Tukamushaba
1:45pm	Irrigation Water Management Challenges and Solutions for Arid, Saline, and Unfertile Lands » Dr. Farhat Abbas , Prof. Rachid Benlamri, Dr. Aitazaz Farooque
2pm	Population Growth as a Climate Change Stressor: Strategic Options Towards Mitigating its Impact on Food Security in Africa » Prof. Anthony Kola-Olusanya, Prof. Hakeem Ajonbadi , Dr. Peter Adewale
2:15pm	A Novel Predictive Model for Integrating Pest Detection and Environmental Factors for Food Security Assessment » Mr. Muhammad Qasim, Ms. Asifa Bibi, Dr. Danish Mahmood, Dr. Ghufraan Ahmed, Dr. Adnan Akhunzada
1pm	Breakout session: Water Resource Management <i>AL Wakrah -Theater</i>
1pm	Microplastics and Phthalates Migration from Disposable Paper Cups: A Threat to Beverage Safety in Qatar » Ms. Sara Al-Baker, Ms. Asma Mohamed , Ms. Raneem Mohamed, Ms. Naval Alhamdan, Ms. Sjoood Makeen, Ms. Hadir Ibrahim, Ms. Ala Alardah, Ms. Marwa Al-Ani, Dr. Noora Al-Qahtani
1:15pm	Modeling Groundwater Flow and Chloride transport from the dumpsite in Erbil City, Kurdistan Region, Iraq, by Using GMS » Mrs. Noor Yashooa, Prof. Dana Mawlood



Continued from **Wednesday, 5 February**

1:30pm	<p>Understanding the leaching of antimony from commercially bottled water: Perspective on the effect of use conditions and associated risks</p> <p>» Dr. Mahmoud Bataineh, Ms. Sohayla ElMokadem, Ms. Anika Fajutagana, Dr. Ravi Rangarajan</p>
1:45pm	<p>Valorization of Opuntia Ficus-indica derived biochar as a sustainable adsorbent for anionic and cationic dye removal</p> <p>» Mr. Yasser Boumezough, Prof. sihem arris, Dr. Gianluca Viscusi</p>
2pm	<p>Biopolymer-Based Corrosion and Scaling Inhibitors: A Sustainable Solution for Industrial Water Management in Critical Systems</p> <p>» Ms. Amna Suhail Fadhel Kamel Alhashmi, Mr. Khalid Hussain, Ms. Rawdha Khalfan Ali Khalfan Alhammadi, Mr. Shamma Mohamed Khalifa Alshamsi, Ms. Zayana Salem alsudain</p>
2:15pm	<p>Development and Optimization of a Closed-Loop Drilling Mud System for Enhanced Environmental Safety and Operational Efficiency</p> <p>» Mr. Khalid Hussain, Mr. Shamma Mohamed Khalifa Alshamsi</p>
1pm	<p>Breakout session: Policies, Legislations and Society</p> <p><i>Al Ruwais- Theater</i></p>
1pm	<p>Women, Work and Water: Water Access and Negotiations in the Slums of Jaipur, India</p> <p>» Mr. Monidip Mondal</p>
1:15pm	<p>Development of a Code of Practice for Offshore Aquaculture Vessels: Enhancing Safety and Efficiency in Seafood Production</p> <p>» Dr. Saeed Mohajernasab, Dr. Nagi Abdussamie, Mr. Andrew Harris, Mr. Nick Tighe, Mr. Chris Shearer, Dr. Chris Chin, Dr. Ashraf Zaghwan</p>
1:30pm	<p>Hydrogen-Ready Natural Gas Pipelines: A Transformative Solution for Sustainable Urban Infrastructure and Climate Resilience in the GCC Region</p> <p>» Mr. Khalid Hussain, Mr. Abdulrahman Ahmed Abdulrahman Al-Ali</p>

1:45pm	<p>An investigation on best practices to increase Food Security and reduce Food Waste in Qatar</p> <p>» Dr. Valeria Freundt, Ms. Tahira Makda</p>
2pm	<p>A Sustainable Finance Approach to Water Resource Management in Iran</p> <p>» Mrs. Atieh Hajian, Dr. Dalal Aassouli</p>
2:30pm	<p>Coffee Break and Poster Exhibition</p> <p><i>Building 1</i></p>
2:45pm	<p>Breakout Session: Climate Change Impact</p> <p><i>Mesaieed- Theater</i></p>
2:45pm	<p>Floods in Canada in a multivariate non-stationarity framework</p> <p>» Prof. Fateh Chebana, Dr. Dorsaf Goutali</p>
3pm	<p>Climate Change Induced Increased Flood & Storm Hazards: Ecosystem Based Adaptation Approach</p> <p>» Dr. Monirul Mirza, Prof. Azad Ashraf, Mr. Ajaya Dixit</p>
3:15pm	<p>Investigating the Role of Ethnicity and Perceived Inequality in Shaping Resilience to Water Supply Disruptions in Malaysia: Insights for Advancing SDG No. 11 in the Face of Climate Change</p> <p>» Dr. Mohammad Javad Maghsoodi Tilaki, Dr. Massoomeh Hedayati Marzbali</p>
3:30pm	<p>Sustainable Electromagnetic, Thermal and Acoustic Shielding Material from Waste Face Mask: A Review on Circular Economy</p> <p>» Dr. Aparna Krishna, Dr. Mohamed Ouda, Dr. Jamal Kurdi</p>
3:45pm	<p>Facing Climate Change: Enhancing Water Access in Fighting Hunger in Rural Female-Led Farming Households</p> <p>» Prof. Adrino Mazenda</p>



Continued from Wednesday, 5 February	
4pm	<p>Comprehensive Feasibility Evaluation on the Onboard Green Hydrogen Production from Seawater Desalination on Renewable-powered FSRUs</p> <p>» <u>Mrs. Dindha Andriani</u>, Dr. Yusuf Bicer</p>
2:45pm	<p>Breakout session: Food Security & Sustainability</p> <p><i>Laffan- Theater</i></p>
2:45pm	<p>A Deep Neural Network for Tomato Yield Prediction in Controlled Environment Agriculture</p> <p>» <u>Dr. Hassan Ali</u>, Prof. Rachid Benlamri, Dr. Aitazaz Farooque, Dr. Fahim Ullah Khan, Dr. Ahmed Badawi, Prof. Raziq Yaqub</p>
3pm	<p>Leveraging Emerging Technologies for Enhanced Food Security: Precision Agriculture, Vertical Farming, and Blockchain-Enabled Supply Chains</p> <p>» <u>Mr. Ahmed ABDALLA</u>, Dr. Yasen Harrye, <u>Dr. Hassan Ali</u>, Dr. Hassan Mahasneh</p>
3:15pm	<p>New trends, technological advancements, and obstacles in food security research</p> <p>» <u>Dr. Zahida Bano</u>, Prof. Rachid Benlamri, Dr. Farhat Abbas</p>
3:30pm	<p>Efficiency Enhancement of PV Energy System for Aquaponics in Qatar and GCC Countries</p> <p>» <u>Dr. Ahmed Badawi</u>, Dr. Muhammed Zubair, Dr. Mario Elzein, Dr. Walid Alqaisi, Dr. Alhareth Zyoud</p>
3:45pm	<p>Assessing the Role of Gender in Food Security amidst Climate Change: A Study of Rural Farmers in Ekiti State, Nigeria</p> <p>» <u>Dr. Matthew Olufemi Adio</u>, Dr. Matthew Ayeni, Dr. Olufemi Oyedokun Fakunle, Dr. Oyepaju Abosede Ajetunmobi, Mr. Olarewaju Ayodele, Mr. Akindele James Akintola</p>
2:45pm	<p>Breakout session: Water Resource Management</p> <p><i>AL Wakrah -Theater</i></p>

2:45pm	<p>Environmentally Safe Hybrid Fracturing Technology for Sustainable Oil and Gas Extraction</p> <p>» Mr. Khalid Hussain, Ms. Aisha Al Dhuhoori, Ms. Rawan Al Mashjari, <u>Ms. Alia Almulla</u>, Ms. Aysha Alkindi</p>
3pm	<p>Adsorption of Methylene Blue Using Date Pits Biochar Activated with NaOH</p> <p>» <u>Dr. Raj Dahal</u>, Dr. Bahman Boostani, Dr. Amin Esmaeili Khalil Saraei</p>
3:15pm	<p>A New Strategy for The Management of Waste Water Treatment Using Biomaterials</p> <p>» <u>Dr. Asma Ayat</u>, Prof. Sihem ARRIS, Mrs. Amina Abbaz, Ms. Halima Aissaoui, Mr. Yasser Boumezough, Ms. Djihane Khechine, Ms. Khaoula Khellaf, Ms. Kheiri Chaima</p>
3:30pm	<p>A novel adsorbent based on metal oxide functionalized hemp fibers to remove azo dye and anti-inflammatory drugs from water effluents</p> <p>» <u>Dr. Gianluca Viscusi</u>, Prof. Giuliana Gorrasi</p>
3:45pm	<p>Assessment and Development of Biotechnological Testing Methods for Detecting Bacterial Contaminants in Unlicensed Artesian Wells around Doha.</p> <p>» <u>Mr. Ali Alhamadi</u>, <u>Mr. Fahad Altamimi</u>, Mr. AHMED FARIS, Mr. Ali alseari</p>
4pm	<p>Assessing the Growth of Dunaliella salina in different Salinity concentration for Saline Water Treatment and Biofuel Production</p> <p>» <u>Dr. Arjumand Shah Bano</u></p>
2:45pm	<p>Breakout session: Policies, Legislations and Society</p> <p><i>Al Ruwais- Theater</i></p>



Thursday, 6 February

- 7:30am **Registration**
Building 1
- 8am **Campus Tour**
Building 1
- 9am **Keynote Speaker**
Dukhan Auditorium

Water and Food Security in the Context of Climate Change: What Can Universities Do?

» Prof. Walter Leal Filho, Professor, Environment and Technology Director, Sustainable Development and Climate Change Management Research & Transfer Centre Hamburg University of Applied Sciences, Germany

- 9:45am **Breakout Session: Climate Change Impacts**
Mesaieed- Theater

- 9:45am **CLIMATE CHANGE-CHALLENGES & OPPORTUNITIES FOR RESILIENCE (RETAIL)**
» Dr. Mohamed Althaf

- 10am **Face Global warming. Scenarios proposed for the choice of the installation of aquaculture farms and desalination plants on the Algerian coast**
» Prof. Nour El Islam BACHARI, Prof. Fouzia Houma Bachari, Dr. Lamri Nacef

- 10:15am **Combining multisource data to understand the decline in small pelagic fishing along the Algerian coast**
» Prof. Nour El Islam BACHARI, Prof. Fouzia Houma Bachari, Dr. Lamia Lamia, Dr. Romaisa Harid

- 9:45am **Breakout session: Food Security & Sustainability**
Laffan- Theater

- 9:45am **Food Waste Valorization: Transforming Corn Distillers Solubles into High-Value Carbon-Rich Products**
» Prof. Animesh Dutta, Mrs. Aneela Hayder

- 10am **Water Scarcity Threats to Qatar's Agriculture: A Hindrance to Food Security Initiatives**
» Ms. Hafsa Chohan, Dr. Farhat Abbas, Prof. Rachid Benlamri, Dr. Aitazaz Farooque

- 10:15am **Towards Sustainable Aquaculture in a Changing Climate: Impact of Wave and Current Interactions on Offshore Fish Pen Mooring Systems**
» Dr. Nagi Abdussamie, Ms. Woon Hong, Prof. Shuhong Chai, Dr. Eric Gubesch, Dr. Hassan Mahasneh, Dr. Yasen Harrye

- 9:45am **Breakout session: Water Resource Management**
AL Wakrah -Theater

- 9:45am **An Assessment Approach for Agriculture use of desalinated Water in the Kingdom of Saudi Arabia**
» Mr. Abdullah bin Bilal Al-Subhi, Dr. Omar Ouda

- 10am **Innovative Nanomaterial Solutions for Shipboard Wastewater Management**
» Prof. Nourhan Ghoneim, Ms. Maathir Al Hasani, Ms. Alzulfa Albulushi, Mr. Abdulaziz Al Shandoudi, Prof. Seyed Behbood Issa-Zadeh, Prof. Anteneh Yeneneh, Prof. mohamed shouman

- 10:15am **Assessment of Satellite-Derived Bathymetry (SDB) Using Landsat-8 and Sentinel-2 Multispectral Images along the North Coast of Cherchell, Algeria**
» Prof. Salim Lamine, Mr. Abdelkadir Merdjaoui, Dr. Lamri Nacef, Prof. Nour El Islam BACHARI

- 9:45am **Breakout session: Climate Change Impact**
Al Ruwais- Theater



Continued from Thursday, 6 February	
10:30am	Coffee Break and Poster Exhibition <i>Building 1</i>
11am	Breakout Session: Climate Change Impacts <i>Mesaieed- Theater</i>
11am	Forecasting Temperature Using ARIMA, SARIMA, and the Random Forest Machine Learning Algorithm to Assess Climate Change Impacts in Qatar » Dr. Maha Dewidar
11:15am	Climate Change Effects on Pesticide Use: Farm Workers' Knowledge and Attitudes Toward Exposure » Mrs. Norr Hassan , Dr. Ravi Rangarajan , Dr. Haruna Moda
11:30am	Future Water Scarcity Appearance in the Arabian Peninsula » Ms. Zahrah Abdulghafour , Dr. Masoud Irannezhad
11am	Breakout session: Food Security & Sustainability <i>Laffan- Theater</i>
11am	AI and ML in Food Industry: A Review Study » Dr. Walid Alqaisi , Dr. Ahmed Badawi , Ms. Suzan Ali , Dr. Mostafa Soliman , Dr. Mario Elzein
11:15am	Arsenic, a Food & Drinking Water Threat » Dr. Jafar Momani
11:30am	Implications of critical minerals mining on food security and environmental sustainability in Zambia » Mr. Solomon Mwampikita , Dr. Matilda Kaliba
11am	Breakout session: Water Resource Management <i>AL Wakrah -Theater</i>
11am	Feasibility of Water Harvesting from Extra Moisture in the Greenhouse by Composite of MOFs and Fibers » Dr. Amin Esmaeili Khalil Saraei , Dr. Seyedmasnour Bidoki , Prof. Ali Demir , Prof. Ahmet Kürklü , Dr. Bahman Boostani , Ms. Sara Soussy , Dr. Raj Dahal , Dr. Sherzod Madrahimov , Ms. Hind Mamlouk
11:15am	The Water Future of the Kingdom of Saudi Arabia: Short and Medium Term Challenges » Dr. Christopher Fellows , Dr. Ali Al-Hamzah
11:30am	Biodegradable Biosurfactants: A Sustainable Solution for Water Protection and Food Security in Oil Spill Management » Mr. Khalid Hussain , Mr. Shamma Mohamed Khalifa Alshamsi
11am	Breakout session: Policies, Legislations and Society <i>Al Ruwais- Theater</i>
11:45am	Lunch/Prayer Break <i>Building 1</i>
1pm	Breakout Session: Climate Change Impacts <i>Mesaieed- Theater</i>
1pm	Advancing Sustainable Energy Solutions: Integrating Hybrid Systems and Electric Vehicles for a Greener Future » Dr. Uthra R , Dr. Ravi Rangarajan
1:15pm	Valorization of Desalination Reject Brine for Calcium Recovery » Ms. Aiste Zukaityte , Dr. Roneta Chaliulina , Mr. Bryant Montenegro , Dr. Yousef Alhorr
1:30pm	Impact of sowing methods on growth and yield of wheat cultivars in diverse environments » Dr. Wajid Farhad , Dr. Ayaz Ahmad , Dr. Hafiz Mohkum Hammad , Dr. Muhammad Nawaz Kandhro , Dr. Aitazaz Farooque



Continued from **Thursday, 6 February**

1:45pm	The Potential Environmental Effects of Anaerobic Digestion for Methane Generation onboard Cruise Ships » Mr. Mamdouh Elmallah , Dr. Mohamed Shouman
2pm	Nature-based solutions to preserve the wetlands along the critical zones of River Nyong, Cameroon » Prof. Norbert Francois TCHOUAFFE TCHIADJE
2:15pm	The Social Impacts of Climate Change and Its Reflections on Working Life in Terms of Occupational Safety » Dr. SERAP TEPE , Dr. Ahmet Çabuk , Dr. Selin Aslantas
1pm	Breakout session: Food Security & Sustainability <i>Laffan- Theater</i>
1pm	Interactive Effects of Prosopis Species Biostimulants and Drought Stress on Wheat Germination, Growth, and Resilience » Mrs. Najma Maku , Dr. Attiat Elnaggar , Dr. Kareem Mosa , Prof. Ali El-Kebrawy
1:15pm	Agricultural Soil Remediation and its Tangible Relation with Food Security in Qatar » Mr. Milad Sabouri Gasgarei , Dr. Vajiheh Akbarzadeh
1:30pm	Developing a machine learning model to predict maize yield sustainability in the Northern Cape » Ms. Kitso Marake , Dr. Micheal Olusanya
1:45pm	Impact of blended food waste and biosolid biochar for soil quality improvement, water and nutrient security in crop production » Dr. Snigdhendubala Pradhan , Dr. Tareq Al-Ansari , Prof. Gordon Mckay
2pm	BIOTECHNOLOGY AND GENOMICS FOR DEVELOPING CLIMATE-RESILIENT CROPS IN THE GULF REGION » Dr. Fahim Ullah Khan , Dr. Farhat Abbas , Dr. Hassan Ali , Dr. Israr Ud Din , Mr. Attiq ur Rehman , Dr. Michael Phillips

2:15pm	Challenges and Opportunities in AI-Driven Supply Chain Sustainability » Mrs. Ghoson AL-Obaidly
1pm	Breakout session: Water Resource Management <i>AL Wakrah -Theater</i>
1pm	Bio-desalination of Saline Water Using Microalgae as an Environmentally Friendly and Sustainable Water Processing Technology in Qatar » Dr. Amin Esmaeili Khalil Saraei , Dr. Abooali Golzary , Mr. Milad Sabouri Gasgarei , Dr. Raj Dahal , Dr. Bahman Boostani
1:15pm	Hydrodynamic Simulation and Performance Evaluation of a Hydro-Powered Water Delivery Mechanism » Dr. Mansour Al Oubeissi , Mr. Scott Beard
1:30pm	Enhancing Water Management in Oman's Date Palm Cultivation: Advanced Technologies for Real-Time Estimation of Crop Water Requirements » Mr. Zahir Saif Al Salmani , Dr. Mumtaz Khan , Dr. Aitazaz Farooque
1:45pm	Hybrid Deep Learning Model for Rainfall Prediction » Dr. Monther Tarawneh , Dr. Faisal Alzyoud , Prof. Khalaf Khatatneh , Dr. Omar Tarawneh
2pm	Biodegradable Scale Inhibitor for Sustainable Water Treatment and Reuse in Industrial Applications » Mr. Khalid Hussain , Ms. Aliya Abdalla Hassan Almarashda , Ms. Rawdha Salah Ahmed Alsabbagh
2:15pm	Construction Of Photobioreactor for Algal Cultivation: An Approach Towards Eco-Friendly Wastewater Treatment » Dr. Sidra Pervez
1pm	Workshop 3: Nexus of Digital Technologies and Climate Change: An Overview from Food Security and Sustainability <i>Al Ruwais- Theater</i>



Continued from **Thursday, 6 February**

1pm	Workshop 1: Connected Farming: Water Management using IoT for Agriculture Chaired by: Dr. Hassan Mahasneh
1pm	Workshop 2: Smart Agriculture: Machine Learning Approaches to Combat Climate Change and Enhance Food Security Chaired by: Dr. Hassan Ali
2:30pm	Coffee Break and Poster Exhibition <i>Building 1</i>
2:45pm	Breakout Session: Climate Change Impacts <i>Mesaieed- Theater</i>
2:45pm	Nano-Laccase: Silver Nanoparticle-Immobilized Laccase for Efficient and Sustainable Wastewater Treatment » Dr. Muhammad Asif Nawaz , Dr. Sidra Pervez, Dr. Latif Ur Rahman
3pm	Climate change and its impact on the ecosystem on the Ramadi Island Plateau for the period from 1980 to 2022 » Mr. Mustafa Alani , Dr. Ali Hussein Ibraheem Al-Bayati
3:15pm	Climate Change, Hunger, and Extreme Poverty in Africa: A Case Study of Egypt » Prof. Khaled Hassan

3:30pm	Machine Learning-Driven Prediction of Agricultural Drought in Central Europe (1900-2021) » Dr. Safwan Mohammed , Prof. Endre Harsányi
3:45pm	Securing West Africa Water Supply for Food Security: Strategic Actions Against Climate Change » Dr. Peter Adewale , Prof. Hakeem Ajonbadi , Prof. ANTHONY KOLA-OLUSANYA, Prof. Florence Yusuf, Dr. Yusuf Shogbesan, Dr. Oluwaseun Odetola
4pm	STATUS OF MARINE INTRUSION IN THE MAGHREB COUNTRIES BORDERING THE MEDITERRANEAN SEA » Prof. Djabri Larbi
2:45pm	Breakout session: Food Security & Sustainability <i>Laffan- Theater</i>
2:45pm	Breakout session: Water Resource Management <i>AL Wakrah -Theater</i>
2:45pm	Workshop 1: Connected Farming: Water Management using IoT for Agriculture Chaired by: Dr. Hassan Mahasneh
2:45pm	Workshop 2: Smart Agriculture: Machine Learning Approaches to Combat Climate Change and Enhance Food Security Chaired by: Dr. Hassan Ali



Friday, 7 February

2pm

Field Trip: Desert Safari (registration required)

Building 1