



## 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
- 12:10pm **Lunch Break**  
*Building 1*
- 1:10pm **WFCC Arab Youth Competition**  
*Dukhan Auditorium*
- 1:10pm **WFCC Arab Youth Postgraduate Presentations**  
» Postgraduate students
- 2:10pm **Closing Remarks**  
» Dr. Amin Esmaili
- 2:25pm **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:**

» 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 **Closing**  
*Dukhan Auditorium*

10:30am **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



Continued from **Wednesday, 5 February**

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

» [Ms. celine Rouphael](#)

**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. 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

**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 Bandoniill, Dr. Nenita Desamero, Ms. Juliet Rillon

**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](#)



Continued from **Wednesday, 5 February**

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

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

**The evolution of the reproductive mode in the Carassius auratus complex**

» [Ms. Reem Al-Haidose](#)

**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. Dr Romaissa Harid, Dr. Dr Lamri Nacef, Prof. Prof Nour El Islam Bachari

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

» [Dr. MAJID 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 Watershed (Province of Medenine, south-east of Tunisia)**

» [Dr. Riadh Bechir](#)

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*

1pm

**Breakout Session: Climate Change Impact**

*Mesaieed- Theater*

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

**Comprehensive Feasibility Evaluation on the Onboard Green Hydrogen Production from Seawater Desalination on Renewable-powered FSRUs**

» [Mrs. Dindha Andriani](#), Dr. Dr Yusuf Bicer

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

1:45pm

**Advancing Sustainable Energy Solutions: Integrating Hybrid Systems and Electric Vehicles for a Greener Future**

» Dr. Uthra R, [Dr. Ravi Rangarajan](#)



Continued from **Wednesday, 5 February**

- 2pm **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
- 2:15pm **Tackling Climate Change in Yemen: Environmental Policy Gaps and Organizational Solutions**  
» [Dr. Mohamed Saleh Al Haj](#)
- 1pm **Breakout session: Food Security & Sustainability**  
*Laffan- Theater*
- 1pm **Evaluation of salt tolerance genes expressed in transgenes Nicotiana**  
» [Dr. Mona Albloushi](#)
- 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 **Assessing the Role of Gender in Food Security amidst Climate Change: A Study of Rural Farmers in Ekiti State, Nigeria**  
» [Dr. Matthew Olufemi Adio](#), Dr. Matthew Ayeni, Dr. Olufemi Oyedokun Fakunle, Dr. Oyepeju Abosede Ajetunmobi, Mr. Olarewaju Ayodele, Mr. Akindele James Akintola
- 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 **Irrigation Water Management Challenges and Solutions for Arid, Saline, and Unfertile Lands**  
» [Dr. Farhat Abbas](#), Prof. Rachid Benlamri, Dr. Aitazaz Farooque
- 1pm **Breakout session: Water Resource Management**  
*AL Wakrah -Theater*
- 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. Mrs noor Yashooa, [Prof. Dana Mawlood](#)
- 1:30pm **Understanding the leaching of antimony from commercially bottled water: Perspective on the effect of use conditions and associated risks**  
» [Dr. Mahmoud Bataineh](#), Ms. Sohayla ElMokadem, Ms. Anika Fajutagana, Dr. Ravi Rangarajan
- 1:45pm **Valorization of Opuntia Ficus-indica derived biochar as a sustainable adsorbent for anionic and cationic dye removal**  
» Mr. Yasser Boumezough, Prof. sihem arris, Dr. Gianluca Viscusi
- 2pm **Biopolymer-Based Corrosion and Scaling Inhibitors: A Sustainable Solution for Industrial Water Management in Critical Systems**  
» [Ms. Anna Suhail Fadhel Kamel Alhashmi](#), [Mr. Khalid Hussain](#), Ms. Rawdha Khalfan Ali Khalfan Alhammadi, Mr. Shamma Mohamed Khalifa Alshamsi, Ms. Zayana Salem alsudain
- 2:15pm **Development and Optimization of a Closed-Loop Drilling Mud System for Enhanced Environmental Safety and Operational Efficiency**  
» Mr. Khalid Hussain, [Mr. Shamma Mohamed Khalifa Alshamsi](#)
- 1pm **Breakout session: Policies, Legislations and Society**  
*Al Ruwais- Theater*



Continued from **Wednesday, 5 February**

- 1pm **Women, Work and Water: Water Access and Negotiations in the Slums of Jaipur, India**  
» [Mr. Monidip Mondal](#)
- 1:15pm **Development of a Code of Practice for Offshore Aquaculture Vessels: Enhancing Safety and Efficiency in Seafood Production**  
» Dr. Saeed Mohajernasab, [Dr. Nagi Abdussamie](#), Mr. Andrew Harris, Mr. Nick Tighe, Mr. Chris Shearer, Dr. Chris Chin, Dr. Ashraf Zaghwan
- 1:30pm **Hydrogen-Ready Natural Gas Pipelines: A Transformative Solution for Sustainable Urban Infrastructure and Climate Resilience in the GCC Region**  
» Mr. Khalid Hussain, [Mr. Abdulrahman Ahmed Abdulrahman Al-Ali](#)
- 1:45pm **An investigation on best practices to increase Food Security and reduce Food Waste in Qatar**  
» [Dr. Valeria Freundt](#), [Ms. Tahira Makda](#)
- 2pm **A Sustainable Finance Approach to Water Resource Management in Iran**  
» [Mrs. Atieh Hajian](#), Dr. Dalal Aassouli
- 2:30pm **Coffee Break and Poster Exhibition**  
*Building 1*
- 2:45pm **Breakout Session: Climate Change Impact**  
*Mesaieed- Theater*
- 2:45pm **Floods in Canada in a multivariate non-stationarity framework**  
» [Prof. Fateh Chebana](#), Dr. Dr Dorsaf Goutali

- 3pm **Forecasting Temperature Using ARIMA, SARIMA, and the Random Forest Machine Learning Algorithm to Assess Climate Change Impacts in Qatar**  
» [Dr. Maha Dewidar](#)
- 3:15pm **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
- 3:30pm **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](#)
- 3:45pm **The Potential Environmental Effects of Anaerobic Digestion for Methane Generation onboard Cruise Ships**  
» [Mr. Mamdouh Elmallah](#), [Dr. Mohamed Shouman](#)
- 4pm **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
- 2:45pm **Breakout session: Food Security & Sustainability**  
*Laffan- Theater*
- 2:45pm **A Deep Neural Network for Tomato Yield Prediction in Controlled Environment Agriculture**  
» [Dr. Hassan Ali](#), Prof. Rachid Benlamri, Dr. Aitazaz Farooque, Dr. Fahim Ullah Khan, Dr. Ahmed Badawi, Prof. Raziq Yaquub
- 3pm **Leveraging Emerging Technologies for Enhanced Food Security: Precision Agriculture, Vertical Farming, and Blockchain-Enabled Supply Chains**  
» [Mr. Ahmed ABDALLA](#), Dr. Yasen Harrye, [Dr. Hassan Ali](#), Dr. Hassan Mahasneh
- 3:15pm **New trends, technological advancements, and obstacles in food security research**  
» [Dr. Zahida Bano](#), Prof. Rachid Benlamri, Dr. Farhat Abbas



Continued from **Wednesday, 5 February**

- 3:30pm **Efficiency Enhancement of PV Energy System for Aquaponics in Qatar and GCC Countries**  
» [Dr. Ahmed Badawj](#), Dr. Muhammed Zubair, Dr. Mario Elzein, Dr. Walid Alqaisi, Dr. Alhareth Zyoud
- 2:45pm **Breakout session: Water Resource Management**  
*AL Wakrah -Theater*
- 2:45pm **Environmentally Safe Hybrid Fracturing Technology for Sustainable Oil and Gas Extraction**  
» Mr. Khalid Hussain, Ms. Aisha Al Dhuhoori, Ms. Rawan Al Mashjari, Ms. [Alia Almulla](#), Ms. Aysha Alkindi
- 3pm **Adsorption of Methylene Blue Using Date Pits Biochar Activated with NaOH**  
» [Dr. Raj Dahal](#), Dr. Bahman Boostani, Dr. Amin Esmaeili Khalil Saraei
- 3:15pm **A New Strategy for The Management of Waste Water Treatment Using Biomaterials**  
» [Dr. Asma Ayat](#), Prof. Sihem ARRIS, Mrs. Amina Abbaz, Ms. Halima Aissaoui, Mr. Yasser Boumezough, Ms. Djihane Khechine, Ms. Khaoula Khellaf, Ms. Kheiri Chaima
- 3:30pm **A novel adsorbent based on metal oxide functionalized hemp fibers to remove azo dye and anti-inflammatory drugs from water effluents**  
» [Dr. Gianluca Viscusi](#), Prof. Giuliana Gorrasi
- 3:45pm **Assessment and Development of Biotechnological Testing Methods for Detecting Bacterial Contaminants in Unlicensed Artesian Wells around Doha.**  
» [Mr. Ali Alhamadi](#), [Mr. Fahad Altamimi](#), Mr. AHMED FARIS, Mr. Ali alseari
- 4pm **Assessing the Growth of Dunaliella salina in different Salinity concentration for Saline Water Treatment and Biofuel Production**  
» [Dr. Arjumand Shah Bano](#)

- 2:45pm **Breakout session: Policies, Legislations and Society**  
*Al Ruwais- Theater*

**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 **Climate Change, Hunger, and Extreme Poverty in Africa: A Case Study of Egypt**  
» [Prof. Khaled Hassan](#)



Continued from **Thursday, 6 February**

|         |  |
|---------|--|
| 10:15am | <b>Integrating Embodied Carbon Policies in Qatar's Climate Action Framework</b><br>» <a href="#">Mrs. Dilba Rayaru Kandiyil</a> , Prof. Monower Sadique  |
| 9:45am  | <b>Breakout session: Food Security &amp; Sustainability</b><br><i>Laffan- Theater</i>  |
| 9:45am  | <b>Food Waste Valorization: Transforming Corn Distillers Solubles into High-Value Carbon-Rich Products</b><br>» <a href="#">Prof. Animesh Dutta</a> , Mrs. Aneela Hayder   |
| 10am    | <b>Aquaponics Systems Integrating AI for Balanced Nutrient Distribution</b><br>» <a href="#">Ms. Aya Aljaja</a> , <a href="#">Ms. Rawaa ElQasass</a> , Ms. Hind Soubhi   |
| 10:15am | <b>Water Scarcity Threats to Qatar's Agriculture: A Hindrance to Food Security Initiatives</b><br>» <a href="#">Ms. Hafsa Chohan</a> , Dr. Farhat Abbas, Prof. Rachid Benlamri, Dr. Aitazaz Farooque   |
| 9:45am  | <b>Breakout session: Water Resource Management</b><br><i>AL Wakrah -Theater</i>  |
| 9:45am  | <b>An Assessment Approach for Agriculture use of desalinated Water in the Kingdom of Saudi Arabia</b><br>» <a href="#">Mr. Abdullah bin Bilal Al-Subhi</a> , Dr. Omar Ouda   |
| 10am    | <b>Innovative Nanomaterial Solutions for Shipboard Wastewater Management</b><br>» <a href="#">Prof. Nourhan Ghoneim</a> , Ms. Maathir Al Hasani, Ms. Alzulfa Albulushi, Mr. Abdulaziz Al Shandoudi, Prof. Seyed Behbood Issa-Zadeh, Prof. Anteneh Yeneneh, Prof. mohamed shouman |

|         |   |
|---------|---|
| 10:15am | <b>Assessment of Satellite-Derived Bathymetry (SDB) Using Landsat-8 and Sentinel-2 Multispectral Images along the North Coast of Cherchell, Algeria</b><br>» <a href="#">Prof. Salim Lamine</a> , Mr. Abdelkadir Merdjaoui, Dr. Dr Lamri Nacef, Prof. Nour El Islam BACHARI         |
| 9:45am  | <b>Breakout session: Policies, Legislations and Society</b><br><i>Al Ruwais- Theater</i>  |
| 10:30am | <b>Coffee Break and Poster Exhibition</b><br><i>Building 1</i>  |
| 11am    | <b>Breakout Session: Climate Change Impacts</b><br><i>Mesaieed- Theater</i>   |
| 11am    | <b>Applicability Of Artificial Neural Networks for Maize Starch Content Prediction: A Case Study in Eastern Hungary</b><br>» <a href="#">Mr. Peter Fejer</a> , Dr. Tamás Rátonyi, Dr. István Bácskai, Prof. Adrienn Széles, Prof. Endre Harsányi                                    |
| 11:15am | <b>Securing West Africa Water Supply for Food Security: Strategic Actions Against Climate Change</b><br>» <a href="#">Dr. Peter Adewale</a> , <a href="#">Prof. Hakeem Ajonbadi</a> , Prof. ANTHONY KOLA-OLUSANYA, Prof. Florence Yusuf, Dr. Yusuf Shogbesan, Dr. Oluwaseun Odetola |
| 11:30am | <b>Machine Learning-Driven Prediction of Agricultural Drought in Central Europe (1900-2021)</b><br>» <a href="#">Dr. Safwan Mohammed</a> , Prof. Endre Harsányi   |
| 11am    | <b>Breakout session: Food Security &amp; Sustainability</b><br><i>Laffan- Theater</i>   |
| 11am    | <b>Invisible Networks: How Supply Chain Innovation is Securing Qatar's Food Future</b><br>» <a href="#">Mr. MOHD BASHEER</a> , <a href="#">Ms. Luma AbuOrabi</a>  |





Continued from **Thursday, 6 February**

- 11:15am **Challenges and Opportunities in AI-Driven Supply Chain Sustainability**  
» [Mrs. Ghoson AL-Obaidly](#)
- 11am **Breakout session: Water Resource Management**  
*AL Wakrah -Theater*
- 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**  
*Al Ruwais- Theater*
- 11:45am **Lunch/Prayer Break**  
*Building 1*
- 1pm **Breakout Session: Climate Change Impacts**  
*Mesaieed- Theater*
- 1pm **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. Dr Lamri Nacef

- 1:15pm **STATUS OF MARINE INTRUSION IN THE MAGHREB COUNTRIES BORDERING THE MEDITERRANEAN SEA**  
» [Prof. Djabri Larbi](#)
- 1:30pm **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. Romaissa Harid
- 1:45pm **Future Water Scarcity Appearance in the Arabian Peninsula**  
» Ms. Zahrah Abdulghafour, [Dr. Masoud Irannezhad](#)
- 2pm **Climate Change Effects on Pesticide Use: Farm Workers' Knowledge and Attitudes Toward Exposure**  
» [Mrs. Norr Hassan](#), Dr. Ravi Rangarajan, Dr. Haruna Moda
- 1pm **Breakout session: Food Security & Sustainability**  
*Laffan- Theater*
- 1pm **Unveiling Soil Constraints for Sustainable Agriculture in Qatar**  
» [Ms. Zainab Baloochi](#), Ms. Hadir Ibrahim, Ms. Rowa Mohamed, Ms. Amal Ibrahim, Ms. Wadha Al-Abi, Dr. Noora Al-Qahtani
- 1:15pm **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-Keblawy
- 1:30pm **Agricultural Soil Remediation and its Tangible Relation with Food Security in Qatar**  
» [Mr. Milad Sabouri Gasgarei](#), Dr. Vajiheh Akbarzadeh
- 1:45pm **Developing a machine learning model to predict maize yield sustainability in the Northern Cape**  
» [Ms. Kitso Marake](#), Dr. Dr Micheal Olusanya



| Continued from Thursday, 6 February |   |
|-------------------------------------|---|
| 2pm                                 | <b>Impact of blended food waste and biosolid biochar for soil quality improvement, water and nutrient security in crop production</b><br>» Dr. Snigdhendubala Pradhan, Dr. Tareq Al-Ansari, <u>Prof. Gordon Mckay</u>   |
| 2:15pm                              | <b>BIOTECHNOLOGY AND GENOMICS FOR DEVELOPING CLIMATE-RESILIENT CROPS IN THE GULF REGION</b><br>» <u>Dr. Fahim Ullah Khan</u> , Dr. Farhat Abbas, Dr. Hassan Ali, Dr. Israr Ud Din, Mr. Attiq ur Rehman, Dr. Michael Phillips  |
| 1pm                                 | <b>Breakout session: Water Resource Management</b><br><i>AL Wakrah -Theater</i>   |
| 1pm                                 | <b>Bio-desalination of Saline Water Using Microalgae as an Environmentally Friendly and Sustainable Water Processing Technology in Qatar</b><br>» <u>Dr. Amin Esmaeili Khalil Saraei</u> , Dr. Abootali Golzary, Mr. Milad Sabouri Gasegare, Dr. Raj Dahal, Dr. Bahman Boostani |
| 1:15pm                              | <b>Hydrodynamic Simulation and Performance Evaluation of a Hydro-Powered Water Delivery Mechanism</b><br>» <u>Dr. Mansour Al Qubeissi</u> , Mr. Scott Beard   |
| 1:30pm                              | <b>Enhancing Water Management in Oman's Date Palm Cultivation: Advanced Technologies for Real-Time Estimation of Crop Water Requirements</b><br>» <u>Mr. Zahir Saif Al Salmani</u> , Dr. Mumtaz Khan, Dr. Aitazaz Farooque  |
| 1:45pm                              | <b>Hybrid Deep Learning Model for Rainfall Prediction</b><br>» <u>Dr. Monther Tarawneh</u> , Dr. Faisal Alzyoud, Prof. Khalaf Khatatneh, Dr. Omar Tarawneh  |
| 2pm                                 | <b>Biodegradable Scale Inhibitor for Sustainable Water Treatment and Reuse in Industrial Applications</b><br>» <u>Mr. Khalid Hussain</u> , <u>Ms. Aliya Abdalla Hassan Almarashda</u> , <u>Ms. Rawdha Salah Ahmed Alsabbagh</u>   |

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| 1pm    | <b>Workshop 3: Nexus of Digital Technologies and Climate Change: An Overview from Food Security and Sustainability</b><br><i>Al Ruwais- Theater</i>  |
| 1pm    | <b>Workshop 1: Connected Farming: Water Management using IoT for Agriculture</b><br>Chaired by: Dr. Hassan Mahasneh  |
| 1pm    | <b>Workshop 2: Smart Agriculture: Machine Learning Approaches to Combat Climate Change and Enhance Food Security</b><br>Chaired by: Dr. Hassan Ali   |
| 2:30pm | <b>Coffee Break and Poster Exhibition</b><br><i>Building 1</i>   |
| 2:45pm | <b>Breakout Session: Climate Change Impacts</b><br><i>Mesaieed- Theater</i>  |
| 2:45pm | <b>Climate Change Induced Increased Flood &amp; Storm Hazards: Ecosystem Based Adaptation Approach</b><br>» <u>Dr. Monirul Mirza</u> , Prof. Azad Ashraf, Mr. Ajaya Dixit  |
| 3pm    | <b>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</b><br>» <u>Dr. Mohammad Javad Maghsoodi Tilaki</u> , Dr. Massoomeh Hedayati Marzbali |



Continued from **Thursday, 6 February**

3:15pm **Sustainable Electromagnetic, Thermal and Acoustic Shielding Material from Waste Face Mask: A Review on Circular Economy**

» [Dr. Aparna Krishna](#), Dr. Mohamed Ouda, Dr. Jamal Kurdi

3:30pm **Facing Climate Change: Enhancing Water Access in Fighting Hunger in Rural Female-Led Farming Households**

» [Prof. Adrino Mazenda](#)

3:45pm **The Social Impacts of Climate Change and Its Reflections on Working Life in Terms of Occupational Safety**

» [Dr. SERAP TEPE](#), Dr. Ahmet Çabuk, Dr. Dr Selin Aslantas

2:45pm **Breakout session: Food Security & Sustainability**

*Laffan- Theater*

2:45pm **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](#)

3pm **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

3:15pm **Analysis of growth parameters of three genotypes of turkeys using applicable Non-linear models**

» [Dr. Kayode Akano](#)

3:30pm **AI and ML in Food Industry: A Review Study**

» [Dr. Walid Alqaisi](#), Dr. Ahmed Badawi, Ms. Suzan Ali, Dr. Mostafa Soliman, Dr. Mario Elzein

3:45pm **Implications of critical minerals mining on food security and environmental sustainability in Zambia**

» [Mr. Solomon Mwampikita](#), [Dr. Matilda Kaliba](#)

4pm **Arsenic, a Food & Drinking Water Threat**

» [Dr. Jafar Momani](#)

2:45pm **Breakout session: Water Resource Management**

*AL Wakrah -Theater*

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*