

# Speaker Sessions

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## Water, Sanitation, and Hygiene

Kartik Chandran, Columbia University, United States  
Antoine Ghauch, American University of Beirut, Lebanon

*The Need for Disruptive Game Changing Approaches in Water Sanitation and Hygiene*  
Carl Hensman, Gates Foundation, United States

*Anaerobic Membrane Bioreactor and its Efficacy in Removing Microbial Contaminants*  
Peiying Hong, King Abdullah University for Science and Technology, Saudi Arabia

*Amplifying Progress toward Multiple Development Goals through Resource Recovery from Sanitation*  
Jeremy Guest, University of Illinois, United States

*Expanding Access to Sanitation for Unsewered Communities in Middle East and North Africa Countries: Social and Technical Aspects*  
Mustafa Mahi, Office National de l'Electricité et de l'Eau Potable, Morocco

## Renewable Energy

Andrej Lenert, University of Michigan, United States  
Asmae Khaldoun, Al Akhawayn University, Morocco

*The Green Energy Park – A New Research to Innovation Model to Enhance Excellence in Renewable Energy in Africa*  
Badr Ikken, Institut de Recherche en Energie Solaire et Energies Nouvelles, Morocco

*Fundamental and High Throughput Advances in Electrochemical Energy Technologies*  
Sossina M. Haile, Northwestern University, United States

*Developing New Pathways for the Production of Fuels and Chemicals in a Sustainable Manner*  
Thomas Jaramillo, Stanford University, United States

*High-Performance Solar Thermal Energy Conversion with Dry Cooling*  
TJ Zhang, Masdar Institute, United Arab Emirates

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### Precision Medicine& Cancer

Kunal Rai, MD Anderson Cancer Center, USA

Mohammed Qasaimeh, New York University Abu Dhabi, UAE

*Translating a Trillion Points of Data into Therapies, Diagnostics, and New Insights into Disease*

Atul Butte, University of California, San Francisco, United States

*Microfluidics for the Interrogation of Circulating Biomarkers in Cancer Patients*

Shannon Stott, Harvard Medical School, United States

*Optimizing Therapies of Chronic Myeloid Leukemia: One Step Closer to Cure?*

Rihab Nasr, American University of Beirut, Lebanon

*Targeted Delivery of Anticancer Therapeutics*

Mazin Magzoub, NYU Abu Dhabi, United Arab Emirates

### Smart Agriculture

Amir Aghakouchak, University of California, Irvine, United States

Samer Samarah, Yarmouk University, Jordan

*Discovering How Agricultural Development Shapes Climate Change Futures*

Patrick Reed, Cornell University, United States

*Carotenoid Research: From Combating Malnutrition to Parasitic Weeds Control*

Salim Babili, King Abdullah University of Science and Technology, Saudi Arabia

*Impact of Water policy on Food Security in Jordan*

Tala Qtaishat, Jordanian University, Jordan

*Advances in Mapping Evapotranspiration with Satellite Data*

Forrest Melton, JPL/NASA, United States

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### Smart Cities

Marta Gonzalez, Massachusetts Institute of Technology (MIT), United States  
Mohamed Bakhouya, International University of Rabat, Morocco

*Urban Data Management, Analysis and Visualization*  
Claudio Silva, New York University, United States

*The City Dynamics Platform*  
Anas Alfaris, King Abdulaziz City for Science and Technology, Saudi Arabia

*Data-Driven Management of Urban Energy Networks: Sensing, Learning and Optimization*  
Ram Rajagopal, Stanford University, United States

*Social Sensing of the City*  
Ingmar Weber, Qatar Computing Research Institute, Qatar