

1st Arab-American Frontiers of Sciences, Engineering, and Medicine Symposium

Kuwait Institute for Scientific Research * U.S. National Academies
October 17-19, 2011 in Kuwait City

PROGRAM - (Sessions listed in alphabetical order)

Agriculture

Organizers:

Ahmad Al-Salman, Sultan Qaboos University, Sultanate of Oman
Asaad Khalid, National Research Center, Sudan

Speakers:

Use of Mathematical Models in Developing Strategies for Sustainability
Yaseen Al-Mulla, Sultan Qaboos University, Sultanate of Oman

Addressing Climate Change Impacts in the Context of Multiple Stresses in North Africa Region
Balgis Osman Elasha, African Development Bank, Tunisia

Role of GABA Shunt Pathway in Plant Abiotic Stress Tolerance
Nisreen Al-Quraan, Jordan University of Science and Technology, Jordan

Using Modern Tools to Investigate Control of and Engineer Specialized Metabolism in Medicinal and Invasive Plant Species
David R. Gang, Washington State University, USA

Diabetes

Organizers:

Hari Pujar, Merck & Co., Inc, USA
Lama Yousef, Damascus University, Syria

Speakers:

Alarming High Prevalence Rates of Diabetes and Metabolic Syndrome in Arab countries: Data from Jordan
Yousef Khader, Jordan University of Science and Technology, Jordan

Diabetes Mellitus in the Middle East: Challenges for the Clinician
Marie Merheb, Mount Lebanon Hospital, Lebanon

Designing Antigen-specific Immunotherapy for Treatment of Type 1 Diabetes
Kristin Tarbell, National Institutes of Health, USA

Regulation of Systemic Energy Balance and Glucose Homeostasis by Protein-Tyrosine Phosphatase 1B
Fawaz G. Haj, University of California Davis, USA

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Energy

Organizers:

Fajhan Al-Mutairi, KISR, Kuwait
Ghada Amer Benah University, Egypt

Speakers:

Waste to Energy via Thermochemical Pathways

Isam Janajreh, Masdar Institute, UAE

Economics of Biogas Technology: Developing Contained Communities in Egypt

Mohamed G. Hassan, AUC, Egypt

Developing Contacts for Improved Performance and Lifetime in Organic Photovoltaics

Dana C. Olson, National Renewable Energy Laboratory (NREL), USA

Organic Solar Cells: Insights into the Design of Building Blocks and Low-Cost Solution Processes

Aram Amassian, KAUST, Kingdom of Saudi Arabia

Linkages

Organizers:

Habibah Al-Manaie, KISR, Kuwait
Rula Deeb, ARCADIS U.S., Inc., USA

Speakers:

Recovering Ammonia for Hydrogen Biofuel Production during Anaerobic Digestion

Donna Fennell, Rutgers University, USA

*Virtual Water Trade for Agriculture Water Demand Management
under Climate Change in the Middle East*

Mutasem El-Fadel, American University of Beirut, Lebanon

Mycological Linkages between Renewable Energy and Agriculture

Scott Baker, Pacific Northwest National Laboratory, USA

Management of Obesity in Diabetes: Making the U turn

Ebaa Alozairi, Kuwait University, Kuwait

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Water

Organizers:

Sherien Elagroudy, Ain Shams University, Egypt
Ziad Mimi, Birzeit University, Palestine

Speakers:

Probing Shallow Aquifers in Northern Kuwait Using Airborne Sounding Radars
Essam Heggy, NASA Jet propulsion Laboratory, California Institute of Technology, USA

Latest Technologies in Water Desalination
Amy Childress, University of Nevada, USA

Water Reuse – Overview, Technologies, Public Awareness and Obstacles
Pascal Saikaly, KAUST, Saudi Arabia

Sustaining Financial Investment in the Field of Water Management
Mohamed A. Dawoud, Environment Agency-Abu Dhabi, UAE