



Faculty of Agricultural and Food Sciences



TEXAS A&M ENERGY INSTITUTE



# WEBINAR Program

Check your Local Time Zone

**Welcome Note (2 min)**

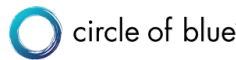
CST: 8:30 am | Beirut: 4:30 pm

**WEF Consortium, milestones, and moving forward/SDG application (5 min)**

CST: 8:32 am | Beirut: 4:32 pm

**Daher, B.,** Mohtar, R.H., Davidson, S., Cross, K., Karlberg, L., Darmendrail, D., Ganter, C.J., Kelman, J., Sadoff, C., Nahon, C., Fonseca, G., Comby, J., Lavarde, P., Abicalil, T., Aldaco-Manner, L., Schweitzer, M. (2018). Multi-stakeholder Dialogue: Water-Energy-Food (WEF) Nexus and Implementing the SDGs. IWRA Policy Brief No. 2

**Stephan, R. M.,** Mohtar, R. H., Daher, B., Irujo, A. E., Hillers, A., Ganter, J. C., Karlberg, L., Martin, L., Nairizi, S., Rodriguez, D. J., & Sarni, W. (2018). Water–energy–food nexus: a platform for implementing the Sustainable Development Goals, Water International, doi: 10.1080/02508060.2018.1446581

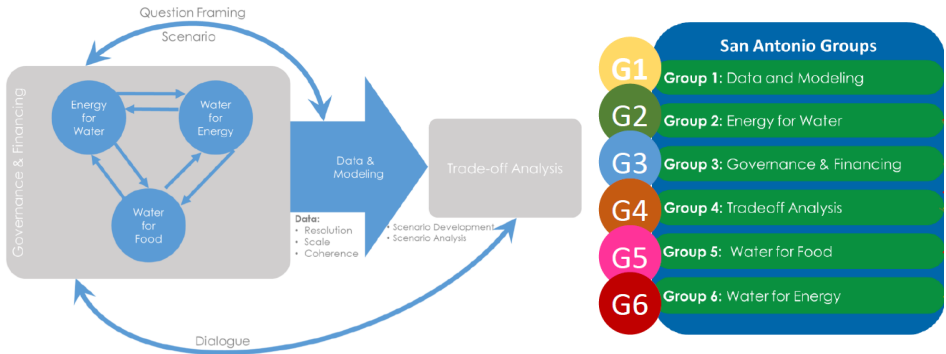


## Science of the Total Environment Articles (80 min)

### Introduction (5 min)

CST: 8:37 am | Beirut: 4:37 pm

**Mohtar, R. H., & Daher, B. (2019).** Lessons learned: Creating an interdisciplinary team and using a nexus approach to address a resource hotspot. *Science of the Total Environment*, 650, 105-110. doi:10.1016/j.scitotenv.2018.08.406



### Modeling (10 min)

CST: 8:42 am | Beirut: 4:42 pm

**Dargin, J., Daher, B., and Mohtar, R. H. (2019).** Complexity versus simplicity in water energy food nexus (WEF) assessment tools. *Science of the Total Environment*, 650, 1566-1575. doi:10.1016/j.scitotenv.2018.09.080

Q/A

### Trade-Off Analysis (20 min)

CST: 8:52 am | Beirut: 4:52 pm

**Daher, B., Lee, S., Kaushik, V., Blake, J., Shafiezadeh, H., Askariyeh, M., Zamaripa, S., Mohtar, R.H. (2018).** Towards bridging the water gap in Texas: A Water-Energy-Food Nexus Approach. *Science of the Total Environment*; <https://doi.org/10.1016/j.scitotenv.2018.07.398>

**Mohtar, R. H., Shafiezadeh, H., Blake, J., & Daher, B. (2019).** Economic, social, and environmental evaluation of energy development in the Eagle Ford shale play. *Science of The Total Environment*, 646, 1601-1614. doi:10.1016/j.scitotenv.2018.07.202

**Kulat, M., Mohtar, R.H., Oliveira, F. (In Review).** Guiding Water Resources Planning Using the Holistic Water-Energy-Food Nexus Approach: Case of Matagorda County, Texas

Q/A

### Water And Energy (15 min)

CST: 9:12 am | Beirut: 5:12 pm

**Bhojwani, S., Topolski, K., Mukherjee, R., Sengupta, D., El-Halwagi, M.M. (In Review).** Technology review and data analysis for cost assessment of water treatment systems. *Science of the Total Environment Elsevier*.

**Mroue, A. M.,** Mohtar, R. H., Pistikopoulos, E. N., & Holtzapple, M. T. (2019). Energy Portfolio Assessment Tool (EPAT): Sustainable energy planning using the WEF nexus approach – Texas case. *Science of the Total Environment*, 648, 1649-1664. doi:10.1016/j.scitotenv.2018.08.135

Q/A

### **Water And Food (15 min)**

**CST: 9:27 am | Beirut: 5:27 pm**

**Loy, S.,** Assi, A. T., Mohtar, R. H., Morgan, C., & Jantrania, A. (2018). The effect of municipal treated wastewater on the water holding properties of a clayey, calcareous soil. *Science of the Total Environment*, 643, 807-818. doi:10.1016/j.scitotenv.2018.06.104

**Tahtouh, J.,** Mohtar, R., Assi, A., Schwab, P., Jantrania, A., Deng, Y., & Munster, C. (2019). Impact of brackish groundwater and treated wastewater on soil chemical and mineralogical properties. *Science of The Total Environment*, 647, 99-109. doi:10.1016/j.scitotenv.2018.07.200

Q/A

### **Governance (15 min)**

**CST: 9:42 am | Beirut: 5:42 pm**

**Aldaco-Manner, L.,** Mohtar, R., & Portney, K. (2019). Analysis of four governance factors on efforts of water governing agencies to increase water reuse in the San Antonio Region. *Science of the Total Environment*, 647, 1498-1507. doi:10.1016/j.scitotenv.2018.07.366

**Daher, B.,** Hannibal, B., Portney, K. E., & Mohtar, R. H. (2019). Toward creating an environment of cooperation between water, energy, and food stakeholders in San Antonio. *Science of the Total Environment*, 651, 2913-2926. doi:10.1016/j.scitotenv.2018.09.395

Q/A

### **WEFRAH (10 min)**

**CST: 9:57 am | Beirut: 5:57 pm**

**Rabi H. Mohtar,** Overview

**Iman Nuwayhid,** Health dimensions of WEFRAH



**Water-Energy-Food-Health Nexus  
Renewable Resources Initiative**