

MEETING AGENDA

Water and Environmental Technology (WET) Center
Temple University, University of Arizona, Arizona State University

Industrial Advisory Board (IAB) Annual Meeting
December 12-13, 2019

Location- Water & Energy Sustainable Technology (WEST) Center
2959 W Calle Agua Nueva
Tucson, AZ 85745

Wednesday, – December 11, 2019

Arrival in Tucson- Check into hotels.

6:00-8:00 PM Informal Meet-and-Greet – Texas Roadhouse, 8450 N. Cracker Barrel Rd, Marana, AZ

Thursday – December 12, 2019

UA WEST Center, 2959 W. Calle Agua Nueva
Radon Room

Convener - *Ian Pepper*, UA Site Director

7:30-8:00 AM *Breakfast*

8:00-8:10 AM Opening Remarks and Introduction of Participants
Ian Pepper, UA Site Director

8:10-8:20 AM State-of-the-Center Report - Temple University
Rominder Suri, Temple Site Director

8:20-8:30 AM State-of-the-Center Report – University of Arizona
Ian Pepper, UA Site Director

8:30-8:40 AM State-of-the-Center Report – Arizona State University
Morteza Abbaszadegan, ASU Site Director

8:40-8:50 AM Overview of Forms:
Project Reports; Continuation Project Funding Requests; New Proposals, *David Tansik*, WET
Center Evaluator

- 8:50-9:20 AM University of Arizona - **New Project Proposals**
- [UA-P01-F19] Influence of Magnetic Fields on Waterbased *Legionella* and *Pseudomonas*, *Aidan Foster* and *Ian Pepper*
 - [UA-P02-F19] Influence of Microplastics on Soil Health and Potential Transport to Groundwater, *Chuck Gerba*, *Jeff Prevatt*, *Dan Quintanar*, and *Ian Pepper*
 - [UA-P03-F19] Incidence of PFAS in Long-Term Land Application Sites, *Ian Pepper* and *Jeff Prevatt*
- 9:20-9:35AM University of Arizona - **Continuation Projects Requesting Additional Funding**
- [UA-01-S18] Field Testing of Real-Time Detection of Human Pathogenic Viruses Using Smartphone Technology, *Jeong Yeol Yoon* and *Kelly Reynolds*
- 9:35-9:45AM Complete L.I.F.E. Forms (IAB only)
- 9:45-10:00AM *Break*
- 10:00-10:30AM Arizona State University - **New Project Proposals**
- [ASU-01-F2019] Microbial and Mineral Fouling of Template Assisted Crystallization Media and Impacts of Crystallization Efficacy, *Peter Fox*
 - [ASU-02-F2019] Microbially Induced Corrosion in Water Storage Tanks, *Morteza Abbaszadegan* and *Absar Alum*
 - [ASU-03-F2019] Comparison of Legiolert and Cultural Method for the Detection of Environmental *Legionella* in the Central Arizona Waters, *Morteza Abbaszadegan*
- 10:30-11:00AM Arizona State University - **Continuation Projects Requesting Additional Funding**
- [ASU-01-09] Regional Water Quality – Water Quality in Central Arizona Source Waters, *Peter Fox* and *Morteza Abbaszadegan*
 - [ASU-03-18] Bioremediation of Hexavalent Chromium and Lead using Metallophilic Fungi, *Absar Alum* and *Morteza Abbaszadegan*
- 11:00-11:10AM Complete L.I.F.E. Forms (IAB only)
- 11:10-12:00PM Temple University – **Progress Reports, Not Requesting Additional Funding**
- [TU-16-02] Removal of Perfluorinated Compounds (PFAS) in Water using Ultrasound, *Rominder Suri*
 - [TU-16-02] Removal/degradation of Perfluorinated Compounds (PFAS) in Water-Electrooxidation, *Sibel Barisci* and *Rominder Suri*
 - [TU-17-04] Fate Properties of a New Perfluorinated Compound (PFAS), *Sibel Barisci* and *Rominder Suri*

- [TU-05-F2018] Review and Assess Current and Emerging Treatment Technologies for PFAS in Permitted Effluents (e.g., effluents from municipal and industrial WWTPs); *Sibel Barisci, Paul Yaroschak and Rominder Suri*
- [TU-18-03] Removal of Selenium, Dichlorobenzene and other Co-contaminants from Water, *Mithil Nayungari and Rominder Suri*
- [TU-17-01] Analytical Method Development and Treatability Studies for the Removal of antibiotics and antimicrobial resistance genes (ARGs), *Dabojani Das, Rominder Suri, Mohan Achary*
- [TU-19-02] Management of Secondary Sludge at Municipal Wastewater Treatment Plant by Co-digestion with Food Waste; *Rominder Suri, Temple University*

12:00-1:00PM *Lunch*

1:00-2:00PM Arizona State University - **Progress Reports, Not Requesting Additional Funding**

- [ASU-02-18] Template Assisted Crystallization for Scale Control in Low Pressure Reverse Osmosis, *Peter Fox*
- [ASU-05-17] AOP of NDMA using Low Pressure UV and Reflective Technology, *Sunny Natekar and Morteza Abbaszadegan*
- [ASU-01-18] Genetically Modified *Legionella* for Applications in Engineering Process Validation in Water Industry, *Saleh Aloraini and Morteza Abbaszadegan*
- [ASU-05-18] Reduction of Waterborne Bacteria by using Controlled Electric Field, *Morteza Abbaszadegan and Absar Alum*

2:00-3:00PM University of Arizona - **Progress Reports, Not Requesting Additional Funding**

- [UA-06-S18] Characterization of Corrosion of Water Delivery Pipes, *Don Gervasio and Dan Quintanar*
- [UA-09-S18] AMP Index as a Metabolic Indicator of Soil Health, *Luisa Ikner and Ian Pepper*
- [UA-01-S19] Influence of Magnetic Field on the Efficacy of Chlorine Disinfection of Water, *Aidan Foster, Erika Stark, Luisa Ikner, and Ian Pepper*
- [UA-02-S19] Incidence of Human Pathogenic Viruses in 40 Samples of Biosolids from WWTPs in Virginia, *Luisa Ikner, Huruy Zerzghi, Ian Pepper, and Chuck Gerba*

3:00-3:15PM *Break*

3:15-4:15PM Future of WET Center
IAB Closed Door Discussions *with* Center/Site Directors
Complete LIFE Forms (IAB Only)

4:15-4:45PM IAB Closed Door Discussions *without* Center/Site Directors

6:00 PM *Dinner (TBD)*

Friday, December 13, 2019

UA WEST Center, 2959 W. Calle Agua Nueva
Catalina Room

8:30-9:00 AM *Breakfast*

IAB Closed Door Discussions with Center/Site Directors

9:00-11:00 AM Feedback from IAB on presentations and L.I.F.E. forms, and discussions.

Other Agenda Items:

- Approval of previous meeting minutes.
- State-of-the-Center
- Future Research Topics – from IAB.
- Next meeting

11:00-11:15 AM Closing Remarks
 Adjourn

Friday PM Tour of UA WEST Center Laboratory Facilities (OPTIONAL)