



WATER & ENVIRONMENTAL TECHNOLOGY (WET) CENTER

Semi-annual Meeting
Arizona State University
February 22, 2024

Thursday, February 22

Arizona State University, Tempe Campus

Interdisciplinary Science and Technology Building 4 (ISTB-4) - [Conference Room 492](#)

[781 E. Terrace Mall, Tempe, AZ 85281](#)

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| 8:30 - 9:00 am | Breakfast |
| 9:00 – 9:10 am | Welcome, Opening Remarks and Introduction of Participants
<i>Morteza Abbaszadegan, ASU WET Director</i> |
| 9:10 - 9:25 am | State-of-the Center Report - Arizona State University
<i>Morteza Abbaszadegan, ASU WET Director</i> |
| 9:25 - 9:40 am | State-of-the Center Report - University of Arizona
<i>Ian Pepper, UA WET Director</i> |
| 9:40 - 10:00 am | New NSF Regional Innovation Engine on Water-Carbon-Energy Innovation + Global Center for Water Technology
<i>Paul Westerhoff, Regent Professor & Fulton Chair of Environmental Engineering</i> |
| 10:00 – 10:10 am | Overview of L.I.F.E. Forms: Proposals, Continuation & Completed Projects
<i>Morteza Abbaszadegan</i> |

RESEARCH PROPOSALS

- | | |
|------------------|---|
| 10:10 - 10:25 am | [UA-2024-P01] Crop Uptake of PFAS from Land Applied Biosolids: A National Collaborative Project
<i>Ian Pepper, UA</i> |
| 10:25 - 10:50 am | Break |
| 10:50 – 11:05 am | [ASU-2024-P01] A Tool for Corrosion Control – Microbiome of Water Distribution Systems under Microbially Induced Corrosion
<i>Morteza Abbaszadegan, ASU</i> |

Closed Door WET Center IAB Meeting

11:05 - 11:20 am **[ASU-2024-P02] Electro-chlorination Technology for Effective Biofilm Removal in Water Distribution System**
Absar Alum, and Morteza Abbaszadegan, ASU

PROJECTS REQUESTING ADDITIONAL FUNDS

11:20 - 11:35 am **[ASU-2009 & ASU-02-2014-P01] Regional Water Quality – Physicochemical Water Quality Profile of Source and Treated Water in Central Arizona**
Peter Fox, Naeema Cheshomi Ravi Teja Chopparapu and Morteza Abbaszadegan, ASU

11:35 - 11:50 am **[ASU-2009 & ASU-02-2014-P01] Regional Water Quality – Microbiological Water Quality Profile of Source and Treated Water in Central Arizona**
Morteza Abbaszadegan, Naeema Cheshomi and Ravi Teja Chopparapu, ASU

11:50 - 12:05 am **[ASU-09-01A] Data Science Applications for Regional Water Quality Project**
Naeema Cheshomi, Saleh Aloraini and Abbaszadegan, ASU

Completing L.I.F.E. Forms

12:05 - 1:00 pm **Lunch**

1:00 - 1:20 pm **[UA-2020-P03] Effect of Biochar Production Parameters on Removal of PFAS from Contaminated Water**
Dr. Rivka Fidel, Neeraj Setlur and Samuel Rathke, UA

1:20 - 1:40 pm **[UA-2024-01] Smartphone and Paper-based Microfluidic Devices for Detection of PFAS Waterborne Contaminants**
Kelly A. Reynolds, PhD and Jeong-Yeol Yoon, UA

RESEARCH PROJECT REPORTS

1:40 - 2:00 pm **[UA-2022-01] Wastewater Based Epidemiology Testing for Detection of SARS-CoV-2**
Lois Polashenski and Sarah Prasek, UA

2:00 - 2:20 pm **[UA-2023-02] Reduction of Biofilm Formation by Magnetic Treatment**
Aidan Foster, Ian Pepper, UA

2:20 - 2:40 pm **[UA-2022-03] Is Land Application of Biosolids A Significant Source Of PFAS Exposure Via Groundwater Contamination: A National Collaborative Research Project**
Ian Pepper, UA

2:40 - 3:00 pm **Break**

Closed Door WET Center IAB Meeting

3:00 – 3:20 pm **[ASU-2023-01] Dynamics of Bacterial Colonization and Biofilms Formation on Surfaces**

Ravi Teja Chopparapu and Morteza Abbaszadegan, ASU

3:20 – 3:40 pm **[ASU-2023-02] Innovative Technology for Pathogen and Scale Formation Control for Sustainable Operations of Cooling Tower Systems**

Absar Alum and Morteza Abbaszadegan, ASU

3:40 - 4:00 pm **Completing L.I.F.E. Forms**

4:00 - 5:00 pm **Industrial Advisory Board Meeting: Closed Door Discussions with Directors**

Agenda

1. Approval of Minutes
2. State-of-the-WET Center — IAB comments and input
3. Research Progress Reports — IAB comments and input
4. New Project Ideas — IAB input
5. Next IAB Meeting — Schedule date/time

5:00 pm Adjourn

6:30 pm Cocktails and Dinner
Location TBA