



WATER & ENVIRONMENTAL TECHNOLOGY (WET) CENTER

Semi-annual Meeting Arizona State University, Tempe, AZ December 13, 2021

Sunday, DECEMBER 12, 6:00 pm - 8:00 pm

Informal Meet-and-Greet (optional)

Postino

615 S. College Ave, Tempe, AZ 85281

Monday, DECEMBER 13

Arizona State University, Tempe Campus

Memorial Union 2nd Floor, Cochise (MU 228)

301 E. Orange 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, Director, Arizona State University</i> |
| 9:10 - 9:25 am | State-of-the WET Center |
| 9:25 - 9:40 am | State-of-the Center Report - Arizona State University
<i>Morteza Abbaszadegan, ASU Director</i> |
| 9:40 - 9:50 am | State-of-the Center Report - University of Arizona
<i>Ian Pepper, UA Director</i> |
| 9:50 – 10:00 am | Overview of L.I.F.E. Forms: Proposals, Continuation & Completed Projects
<i>Morteza Abbaszadegan</i> |

RESEARCH PROPOSALS

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| 10:00 - 10:15 am | [ASU-2021-P01] Study of the Mechanisms of Disinfectants on Opportunistic Pathogens in Distribution Systems and Biofilms
<i>Morteza Abbaszadegan, ASU</i> |
| 10:15 - 10:40 am | Break |

Closed Door WET Center IAB Meeting

- 10:40 – 10:55 am **[ASU-2021-P02] Reduction of Chemical Use and Water Consumption in Cooling Towers Using Cirrus Ecowater Technology**
Peter Fox, ASU
- 10:55 - 11:10 am **[ASU-2021-P03] Point-of-use Device for Removing *Legionella* in Water**
Absar Alum, Morteza Abbaszadegan, ASU
- 11:10 - 11:25 am **[UA-2021-P01] Evaluation of Incidence and Transport of PFAS Following Long Term Land Application of Biosolids: A National Collaborative Project**
Ian Pepper, UA

PROJECTS REQUESTING ADDITIONAL FUNDS

- 11:25 - 11:40 am **[ASU-2009 & ASU-02-2014-P01] Regional Water Quality – Water Quality in Central Arizona Source Waters**
Peter Fox and Morteza Abbaszadegan, ASU
- 11:40 - 11:55 am **[ASU-09-01A] Data Science Applications for Regional Water Quality Project**
Saleh Aloraini and Abbaszadegan, ASU
- 11:55 - 12:10 pm **Completing L.I.F.E. Forms**
- 12:10 - 1:00 pm **Lunch**

RESEARCH PROJECT REPORTS

- 1:00 - 1:20 pm [UA-2020-P01] Monitoring COVID-19 via Wastewater-Based Epidemiology
Ian Pepper, UA
- 1:20 - 1:35 pm [UA-2020-P02] Incidence and Mobility of PFAS Analytes following Long Term Land Application of Class B Biosolids
Ian Pepper, UA
- 1:35 - 1:55 pm [UA-2020-P03] Evaluation of Microbial Physiological Activity Through the Use of the AMP Stress Index
Hannah Riedemann and Zhimu Lin, UA
- 1:55 - 2:10 pm [UA-2021-P01] Effects of Magnetic Water Treatment on Bacterial Survival in Biofilms
Aidan Foster, UA
- 2:10 - 2:25 pm [UA-2021-P02] Assessment of Chloramination as a Barrier to Coronavirus in Water Distribution Systems
Aidan Foster, UA
- 2:25 - 2:40 pm [ASU-2019-P02] Microbially Induced Corrosion in Water Storage Tanks
Amber Neal, Absar Alum and Morteza Abbaszadegan, ASU

Closed Door WET Center IAB Meeting

2:40 - 3:00 pm	Break
3:15 – 3:30 pm	[ASU-2021-P01] Kinetics of <i>Legionella</i> biofilms formation in three pipe materials and impact of electromagnetic field on biofilms <i>Bitu Kolahi, Absar Alum, Saleh Aloraini and Morteza Abbaszadegan, ASU</i>
3:30 – 3:45 pm	[ASU-2017-P05] 1,4 dioxane and NDMA - Emerging Contaminant: Control Strategies using advanced oxidation with Low Pressure UV and Reflective Technology <i>Sunny Natekar & Morteza Abbaszadegan (ASU)</i>
3:45 - 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. Spring 2022 Meeting — Schedule date/time
5:00 pm	Adjourn
6:30 pm	Cocktails and Dinner <i>Location TBA</i>