FINAL MEETING AGENDA

Water and Environmental Technology (WET) Center
National Science Foundation Industry/University Cooperative Research Center

Temple University, University of Arizona, Arizona State University

Industrial Advisory Board (IAB) Annual Meeting
May 28 - 29, 2015

Location- Johnson & Johnson facility
Horsham, PA 19044

Wednesday – May 27, 2015

Arrival in Philadelphia- Check into hotels.

5:30-7:00 PM Informal Meet-and-Greet at Joseph Ambler Inn (OPTIONAL).

Thursday- May 28, 2015

Centocor (J&J) / GBSC building

Convener - Rominder Suri, Director WET Center.

7:30-8:30 AM Breakfast

8:30-8:40 AM Opening Remarks and Introduction of Participants.
Rominder Suri, Director WET Center

8:40-8:50 AM NSF I/UCRC Program Overview.
National Science Foundation

8:50-9:10 AM State-of-the WET Center.
Rominder Suri, Director WET Center

Rominder Suri, Director WET Center

Ian Pepper, UA Site Director

Morteza Abbaszadegan, ASU Site Director

9:40-10:00 AM Coffee Break

Closed Door WET Center IAB Meeting
10:00-10:10 AM  Overview of L.I.F.E. Forms – Proposals, Continuation Projects, Completed Projects
David Tansik, WET Center NSF Evaluator

10:10- 11:20 AM  Project Proposals

- Proposal [TU-15-01]: Combined O₃/IX and UV/IX process for enhanced TOC removal from source water and brine waste (Ryan Smith)
- Proposal [TU-15-03]: Regenerable, Polymer Coated Sand Adsorbent Filter for the Removal of VOCs and Chromium from Water (Bikash Bhattarai)
- Proposal [TU-15-04]: In vivo estrogenicity of endocrine disrupting chemicals (EDCs) in environmentally relevant mixture using zebrafish as model (Lisa Hui)
- Proposal [UA-P01-S2015]: Smartphone for Water Quality: Smartphone Detection from Paper Microfluidics for Monitoring Water Quality (proposed) (Jeong-Yeol Yoon, Kelly Reynolds)

11:20- 12:05 AM  Temple University – Progress Reports

- [TU-11-10]: Treatment technologies for industrial and municipal wastewater reuse (Rominder Suri / Mike Deitrich); ongoing
- [TU-12-02]: Development of a database (exposure, treatability, ecotoxicity) for emerging contaminants of Concern (Bob Hannah); ongoing
- [TU-13-02]: Chemical and Biological Markers of Untreated Human Sewage Water in Wissahickon Creek Watershed (Irene Pais); ongoing

12:05 – 1:05 PM  Lunch

1:05- 1:15 PM  IAB Members Review and Fill out L.I.F.E. Forms

Progress Reports Continued

1:15 – 2:30 PM  TU Project Progress Reports

- [TU-15-05]: Occurrence Survey for Emerging Contaminants of Concern in Pennsylvania Tributaries of the Delaware River (Djordje Vilmanovic); completed
- [TU-14-11]: In vitro Estrogenic effects of mixtures – impact of EE2 in environmentally relevant mixture of endocrine-disrupting compounds (Lisa Hui); completed
- [TU-09-5]: Removal of emerging contaminants from water using ion exchange and polymeric resins (M. Murugan); completed
- [TU-15-6]: Analysis of Microplastic Beads and their Removal at a Municipal Wastewater Treatment Plant (Rominder Suri); completed
- [TU-11-14]: Development of a biofilter for removal of 1,4-dioxane (Lisa Hui); completed
2:30 – 2:50 PM  
*Coffee Break*

2:50 – 3:30 PM  
**UA Project Progress Reports**

- [UA-01-S2015]: A Risk Assessment of *Legionella* in Reclaimed Water (Charles Gerba and Akrum Tamini); completed
- [UA-02-S2015]: Sustainable Treatment and Beneficial Reuse of Organic Wastewater Byproducts (Akrum H. Tamini and Charles P. Gerba); ongoing
- [UA-03-S2015]: Pathogen and Nutrient Removal from a 21st Century WWTP: Comparison with Conventional WWTPs (Brad Schmitz, Charles Gerba, and Ian Pepper); ongoing
- [UA-04-S2015]: Survival of Ebola in Sewage and During Wastewater Treatment: Evaluation Using a Viral Surrogate (Charles Gerba, Luisa Ikner, and Ian Pepper); ongoing
- [UA-06-S2015]: Monitoring for Reliability and Process Control of Potable Reuse Applications (Ian Pepper, Hye-Weon Yu, and Shane Snyder); ongoing

3:30 – 4:00 PM  
**ASU Project Progress Reports**

- [ASU-01-14]: I/UCRC CORBI: Coupled titanium dioxide photocatalysis & filtration for simultaneous reduction of organic matter, viruses, & estrogenic compounds (Morteza Abbaspazdegan, ASU and Brooke Mayer, Marquette University); ongoing
- [ASU-02-14]: Assessment of novel technology for controlling algal growth in source water and water treatment plant basins (Absar Alum); ongoing
- [ASU-03-14]: Reduction of chemical use and water consumption in engineered systems using physical water treatment (Nursel Kıratlı and Absar Alum); ongoing
- [ASU-04-14]: An investigation of factors that prevent Quagga mussel infestation of the Salt River Project watershed (Peter Fox and Matthew Sokolowski); ongoing
- [ASU-01-13]: Kinetics study of enzyme and substrate for a biosensor platform; Nikou Hesari
- [ASU-02-13]: Regional water quality – status of emerging contaminants (Morteza Abbaspazdegan and Peter Fox); ongoing

4:00 – 5:00 PM  
Completion of L.I.F.E. Forms and IAB Closed Door Discussions

5:30 - 6:30 PM  
*Cocktail Hour and Discussions (Joseph Ambler Inn)*

6:30 PM  
*Dinner (Joseph Ambler Inn)*
**Friday- May 29, 2015**

Centocor (J&J) / GBSC building

**8:00-9:00 AM**  *Breakfast*

**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.
- Future Research Topics – from IAB.
- Other

**11:00-11:15 AM**  Closing Remarks.
Adjourn.

**Friday PM**  Tour of Temple WET Center Laboratory Facilities.
(OPTIONAL)