

## **Draft 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**

June 6–7, 2011

**Location-** Centocor (Johnson & Johnson facility) / GBSC building  
200 Tournament Drive, Horsham, PA 19044

#### **Sunday –June 5, 2011**

Arrival in Philadelphia- Check into hotels

**6:00-7:30 PM** Informal Meet-and-greet at Joseph Ambler Inn (OPTIONAL)

#### **Monday- June 6, 2011** Centocor (J&J) / GBSC building

Convener - Rominder Suri, Director WET Center-I/UCRC

**7:30-8:30 AM** Breakfast

**8:45-8:50 AM** Opening Remarks and Introduction of Participants  
Rominder Suri, Director WET Center-I/UCRC

**8:50-9:05 AM** State-of-the Center Report-Temple University  
Rominder Suri, Director WET Center

**9:05-9:50 AM** State-of-the Center Report and Research Progress Summaries - University of Arizona  
Ian Pepper, UA Site Director

**9:50-10:35 AM** State-of-the Center Report and Research Progress Summaries - Arizona State University  
Morteza Abbaszadegan, ASU Site Director

**10:35-10:55 AM** *Coffee Break*

#### **Project Presentations**

##### **I. Treatment Technologies**

**10:55-11:10 AM** Project Report 1: Development of novel adsorbents for the removal of emerging contaminants (ECs) from water and wastewater  
Bikash Bhattarai, TU

**11:10-11:25 AM** Project Report 2: Electro-Sonolytic Destruction of Emerging Contaminants  
Gangadhar Andaluri, TU

**11:25-11:40 AM** Project Report 3: Advanced Oxidation Processes for Removal of Emerging Contaminants  
Tony Singh, TU

**11:40-11:55 AM** Project Report 4: Removal of Emerging Contaminants (ECs) from water and wastewater using Ion Exchange Technologies  
Dan Liu, TU

**12:00 AM-1:00 PM** *Lunch*

## **II. Analytical Methods**

**1:00-1:20 PM** Project Report 5: Evaluation of EPA analytical methods, and development of analytical methods for select emerging contaminants (ECs)  
Kate Fenlon, TU

**1:20-1:25 PM** Project Report 6: Evaluation of a Naphthalene Dosimeter  
Kate Fenlon, TU

**1:25-1:40 PM** Project report 7: Bioassays for the determination of estrogen mimics  
Candice Johnson and Mohan Achary, TU

## **III. Sustainability and Modeling**

**1:40-1:55 PM** Project report 8: Development of predictive methodologies using quantum chemistry calculations (QCC), quantitative structure-activity and structure-property relationships (QSAR/QSPR) to model EC degradation  
Ekaterina Rokhina, TU

**1:55-2:10 PM** Project report 9: Life Cycle Assessment (LCA) of treatment technologies for emerging contaminants (ECs) removal: evaluation of eco-footprint and enhancement of sustainability  
Ekaterina Rokhina, TU

**2:10- 2:30 PM** Sustainability into the complex DoD acquisition system via the use of Life Cycle Impact Assessment  
Paul Yaroshak, Department of Defense, CMRM Directorate

**2:30-2:50 PM** *Coffee Break*

### **New Proposal Presentations**

**2:50-3:00 PM** Project Proposal 1: Pilot scale treatability testing for removal of ECs from water,  
Rominder Suri, TU

## **IV. Environmental Fate**

**3:00-3:10 PM** Project Proposal 2: Environmental fate of nanomaterials,  
Judy Zhang, TU

**3:10-3:20PM** Project Proposal 3: Assessing the effects of antiviral drugs and antibiotics on the activated sludge during an influenza pandemic,  
Benoit Van Aiken, TU

**3:20-3:30 PM** Project Proposal 4: Determination of UV dosages for the removal of O<sub>3</sub> from high-purity water,  
Gangadhar Andaluri, TU

**3:30-3:40PM** Project Proposal 5: Development of biofilter for the removal of 1,4-dioxane from water,  
Muruganandham Manickavachagam, TU

**3:40-3:50 PM** Project Proposal 6: Central Arizona Water Quality Monitoring Project,  
Paul Westerhoff, ASU

**3:50-4:00PM** Project Proposal 7: A novel approach for the detection and community characterization of pathogenic viruses in the environment using qPCR and viral metagenomics,  
Ian Pepper, UA

**4:00 -4:10 PM** Project Proposal 8: Evaluation of the MicroLan TOXcontrol biomonitoring system for on-line detection of chemical contaminants in source waters,  
Ian Pepper, UA

**4:10-4:20PM** Project Proposal 9:

**4:20-4:30 PM** Discussion of the organization of the next morning session

**5:00-6:00 PM** Cocktail Hour and Discussions (Joseph Ambler Inn)

**6:00 PM** *Dinner* (Joseph Ambler Inn)

## **Tuesday-June 7, 2011**

**8:00-9:00 AM** *Breakfast* (GBSC building)

**9:00-10:00 AM** Discussion of Research Presentations/Projects; Feedback from L.I.F.E. forms

**10:00-11:00 AM** Closed session- Industry members, Center Directors and NSF

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

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