

Workshop A: Onsite and Decentralized Nutrient Removal and Recovery Systems

Monday, June 12, 2017

8:30 AM – 5:00 PM

0.6 CEUs

Lunch is included with registration.

Draft Agenda

- 8:30 AM Welcome and Introductions**
- 8:40 AM How Can Decentralized Systems Be Utilized to Achieve Nutrient Management Goals?**
Albert Rubin, North Carolina State University, Michael Hines, John Buchanan, University of Tennessee
- 9:00 AM Gone with the Wind: Rethinking How Water-Filled Pore Space Affects Gaseous Nitrogen Production in Soil-Based Wastewater Treatment**
Jose Amador, University of Rhode Island; Faith Anderson, Jennifer Cooper, University of Florida
- 9:20 AM Hell and High Water: Diminished Septic System Performance Due to Climate Change**
Jennifer Cooper, University of Florida; George Loomis, University of Rhode Island; Jose Amador, University of Florida
- 9:40 AM Low Maintenance Phosphorus and Nitrogen Removal from Onsite Wastewater**
Steven Safferman, Younsuk Dong, Suvankar Sengupta, J Richard Schorr, Rao Revur, Timothy Marth, Michigan State University, Department of Biosystems and Agricultural Engineering, MetaMateria Technologies
- 10:00 AM – 10:30 AM Networking Break**
- 10:30 AM In-ground Nitrogen Reducing Biofilters for onsite Wastewater Treatment- Simple but Effective**
- 10:55 AM Hybrid Adsorption and Biological Treatment Systems (HABiTS) for enhanced Nitrogen Removal in onsite Wastewater Treatment**
Laura Rodriguez- Gonzalez, Karl Paynem Damann Anderson, Maya Trotz, Sarina Ergas, University of South Florida, Hazen & Sawyer
- 11:10 AM Passive On-site Wastewater Treatment for Nutrient Removal**
Martin Wanielista, Ni-Bin Chang, Antony Rios, University of Central Florida, Plastic Tubing Industries
- 11:25 AM Investigations of Non-proprietary Means of Nitrogen Removal in Onsite Septic Systems Using Various Configurations of Ligno-cellulosic Material in the Soil Treatment Areas**
George Heufelder, Cameran Meyers, Keith Mroczka, Brian Baumgaertel, Barnstable County Department of Health and Environment- Massachusetts Alternative Septic System Test Center

--- Agenda continues on next page ---

- 11:40 AM Nitrogen Transformations and Microbial Characterization in Passive Nitrogen Removing Bio-Filters (NRBs) for Onsite Wastewater Treatment**
Xinwei Mao, Stuart Waugh, Stony Brook University; Kylie Lang Lois, Jackie Collier, Roy Price, Jennifer Garvey, Christopher Gobler, Harold Walker, Stony Brook University; NY State Center for Clean Water Technology
- 12:00 PM – 1:30 PM Lunch**
- 1:30 PM Using Spatial Data of Onsite Wastewater Systems for Florida Management Decisions**
Elker Ursin, Eberhard Roeder, Florida Department of Health
- 1:50 PM A Low-impact Management Tool for the Management of Advanced Onsite Septic System Technologies**
Brian Baumgaertel, George Heufelder, Barnstable County Dept. of Health & Environment
- 2:10 PM Passive autotrophic denitrification using agricultural mineral filters**
Craig Jowett, Waterloo Biofiter Systems
- 2:30 PM Low Energy Algae Based Wastewater Treatment for Communities & Decentralized Wastewater Nutrient Removal**
Daniel Johnson, One Water Algae Wheel
- 3:00 PM – 3:30 PM Networking Break**
- 3:30 PM Fertilizer Recovery from Source Urine using the AmmPho Tek Process**
Harold Levernerz, Jessica Hazard, University of California Davis
- 3:50 PM Panel Discussion**
- 5:00 PM Workshop Adjourns**