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AZ Water ASSOCIATION

MICROPLASTICS:
From Mystery to Monitoring and Mitigation

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Moderated by:

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Presentation approved for 1 PDH for attending

Microplastics (MPs) are polymeric particles that occur at a size range between 1 nm and 5,000 µm and are associated with various public health concerns. MPs can also adsorb contaminants at orders of magnitude higher than found in the environment, increasing the potential for their detrimental impact once assimilated by organisms. Ecological and human health impacts of MPs are relatively unknown despite the public's exposure to a credit card equivalent each week. US and international studies have shown the ubiquitous presence of MPs in drinking water and wastewater effluent. However, removal of MPs may pose considerable challenges for many water and wastewater treatment plants due to their smaller size fractions, especially as their continued degradation and fragmentation occurs, increased disinfection by-products (DBPs) concentrations, decreased biogas production, and environmental and agricultural impacts from land-application via biosolids.

Please join us for a virtual event as our experts share their insights on microplastics, including:

- ✔ Overview of current and anticipated regional and national regulations for microplastics, plastics, and plastic-associated additives
- ✔ Impacts and concerns for water and wastewater treatment processes
- ✔ Key elements to a successful monitoring campaign for MPs
- ✔ Traditional and emerging technologies for mitigation
- ✔ Recent and on-going research activities by Arizona Universities

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