

## **CAES SEMINAR SERIES**

## "Emerging Contaminants: Not New Pollutants, but Current Concerns"

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Wednesday, April 3, 2019

12:00 noon to 1:00 p.m.

Food and coffee will be available at 11:45 a.m.

## Jones Auditorium The Connecticut Agricultural Experiment Station 123 Huntington Street, New Haven, CT

Emerging contaminants, also known as contaminants of emerging concern (CECs), are pollutants or chemicals that may pose a risk to human health or to the environment. They can be synthetic or natural, and include chemicals and microorganisms. CECs are not strictly new and are often contaminants that were previously not recognized as a risk. Now we are aware of their potential harm. CECs are found in soil and water and continue to be introduced to the environment without active surveillance or monitoring. Some CECs come from pharmaceuticals and personal care products and can cause hormonal imbalances, different forms of cancer, and toxicity to various organs. However, the toxicity of most CECs is not well understood and there is a lack of information about how to assess them. Such is the case for nanoparticles and per- and polyfluoroalkyl substances, which could interact in the environment with unknown consequences for terrestrial systems. This seminar will discuss CECs and preliminary results about how the fluorinated compound perfluorobutane sulfonic acid (PFBS) and ceria nanoparticles (CeO<sub>2</sub>) affect radish plants.

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