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OCACS Environmental Group
Virtual Presentation

**Current and Emerging Treatment Methods for
Per and Polyfluoroalkyl Substances: A Data-
Driven Overview**

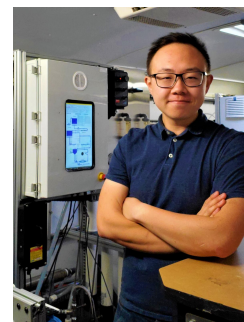
Mr. Charlie Liu
Ph.D. Candidate
Colorado School of Mines

Thursday, October 29th, 2020 at 7:00 pm

Biography

Charlie Liu has a BS in Chemical Engineering from UC San Diego and is currently finishing his PhD in Environmental Engineering at the Colorado School of Mines. His research revolves around the remediation of per and polyfluoroalkyl substances (PFASs) using a wide range of treatment technologies including adsorbents, high-pressure membranes, and UV-based destructive methods.

Specifically, he hopes to better understand the real-world treatment efficacy of these technologies through the treatment of PFAS-impacted groundwaters in pilot-scale systems.



Abstract

Due to the recent measures taken by the EPA and individual states on per and polyfluoroalkyl substances (PFASs), the effective treatment of PFASs has become a topic of increasing concern. While adsorbent-based PFAS treatment technologies such as granular activated carbon (GAC) and anion exchange resins (AER) are currently widely used and effective, other technologies including novel adsorbents, high-pressure membranes, and destructive methods have recently emerged as plausible additions or alternatives to current treatment technologies. Herein, a data-driven overview of current and emerging PFAS treatment technologies and their treatment efficacy, as well as

recent advances and limitations in the detection of PFASs as a class of compounds beyond PFOA and PFOS will be discussed

Location

This is a virtual presentation. Please standby for login instructions. Look forward to your participation.

To Register or for more information

Contact Dr. Ganesh Rajagopalan at RGanesh@KennedyJenks.com by Monday, October 26th, 2020.

6 C Carbon 12.0107	2 4	1 H Hydrogen 1.00794	1	99 Es Einsteinium (252)	2 8 18 32 29 8 2
12 Mg Magnesium 24.3050	2 8 18 18 7	53 I Iodine 126.90447	2 8 18 18 7	16 S Sulfur 32.066	2 8 8 6
22 Ti Titanium 47.867	2 8 10 2	88 Ra Radium (226)	2 8 18 32 18 8 2	39 Y Yttrium 88.90585	2 8 18 9 2

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