

About the Speaker



Reverse Engineering: Drug Discovery through Contaminant Characterization

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Dr. Shane Snyder is a Professor of Chemical & Environmental Engineering, and holds joint appointments in the College of Agriculture and School of Public Health, at the University of Arizona. He also co-directs the Arizona Laboratory for Emerging Contaminants (ALEC) and the Water & Energy Sustainable Technology (WEST) Center. For nearly 20 years, Dr. Snyder's research has focused on the identification, fate, and health relevance of emerging water pollutants. Dr. Snyder and his teams have published over 200 manuscripts and book chapters on emerging contaminant analysis, treatment, and toxicology (H-index = 62 as of January 2017). He currently serves as an editor-in-chief for the international journal Chemosphere. Dr. Snyder also has been a Visiting Professor at the National University of Singapore since 2011.

Synopsis

A tremendous amount of effort is aimed towards better understanding of the natural and synthetic organic matter in the environment. In the study of water, a seemingly endless number of chemical constituents continue to be identified through targeted and non-targeted analytical procedures. Likewise, the formation of transformation products from oxidative water treatment and the reduction of fouling on membranes has increased capabilities in characterization of soluble microbial products and other forms of organic carbon. This presentation will discuss those recent developments and demonstrate how techniques designed for chemical contaminant and natural organic matter characterization have been successfully applied to determine the unique structures within environmental matrixes that can efficaciously reduce the onset of asthma and reduce allergenic responses. This reverse engineering approach has led to an unexpected discovery that shows the value of interdisciplinary, cross-cutting research approaches.

Seminar Details

ALL ARE WELCOME
Please register early
as limited seats are
available

Date: 30 November 2017 (Thursday)
Time: 10:00 AM - 11:00 AM
Location: T-Lab Building Level 5 Seminar Rooms
National University of Singapore
Host: Prof Lee Hian Kee

Light refreshments provided

To register: nus.edu.sg/neri

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