

Clarkson University  
Department of Chemical and Biomolecular Engineering  
**SEMINAR (ZOOM)**

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*Dr. David Speed (GlobalFoundries) will speak on:*

**“Challenges, fun, and opportunities in Environmental Engineering”**

The talk will draw from a wide variety of projects to describe the fun, challenges, and career opportunities in being an environmental engineer in industry. Among the topics will be the conversion of a manufacturing line to eliminate the use of halogenated solvents; the development of electrodialysis processes to recycle chemicals; the development of analytical methods for the measurement and reduction of global warming gases; the design, installation and operation of wastewater treatment processes; laboratory testing of chemical behavior and toxicity; the characterization and mitigation of chemical reaction hazards; DNAPL behavior in groundwater source zones; mitigation of soil vapor intrusion; and the balancing of production well fields for plume capture and water supply protection. Through a quick survey of these projects I hope to demonstrate the value and career opportunity from a strong fundamental education in science and engineering.

**Monday, October 3<sup>rd</sup>, 2022 at 3:00 pm**  
<https://clarkson.zoom.us/j/98265913700>

David Speed is a Distinguished Member of the Technical Staff at GlobalFoundries. He has a PhD in Environmental Engineering from the University of Connecticut, and has worked in the semiconductor industry for more than 30 years. He has developed a number of chemical recycling, waste and water treatment processes, implemented chemical substitutions in manufacturing processes, developed air pollution control technology, and worked on the investigation and remediation of groundwater.