



## FEATURED MEMBERS



### Dr. Qiuyan Yuan (苑秋妍)

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#### 1. *My career path?*

I received my BS in Food Science and Engineering from Beijing Agricultural University in 1996. After graduation, I worked in China for about 2 years, then traveled to Europe, Japan for about 10 years. Finally, I moved to Canada where I decided to go for further education. I received my PhD degree from the Department of Civil Engineering at the University of Manitoba in 2012. I joined Stantec Inc as process specialist in January 2011 where I worked on many process design projects for water and wastewater treatment plants. From these projects I gained valuable industrial experience. In July of 2013, I was hired back by the University of Manitoba as an assistant professor.

#### 2. *Current research areas, interests, and projects?*

My PhD research focused on phosphorus removal and recovery from municipal wastewater. Since 2014, my research area has expanded to solid waste treatment and management. Currently, my research focus on: 1) developing technology to produce high value product form solid waste including organic waste, glass and tires; The associated research projects includes: Development of high value-added products: crushed glass, zeolite, and novel filtration media; Development of Biodegradable Seedling Pots using Textile Waste; 2) landfill methane mitigation using innovative bio-cover, 3) wastewater nutrient removal and recovery, including landfill leachate treatment. The associated research projects include Biological landfill leachate treatment using aerobic granular sludge, Nitrogen removal using algae-bacteria consortium.

#### 3. *Courses you normally teach?*

I have been teaching undergrad courses “Environmental Engineering Design”, “Environmental Systems” and graduate-level courses “Environmental Engineering Laboratory”, “Solid waste final disposal: for the last five years. I enjoyed my teaching!

#### 4. *My professional activities?*

I am a member of the Association of Environmental Engineering and Science Professors (AEESP), and the Water Environment Federation (WEF). I am currently serving on the Technical Publications Committee for the Canadian Society for Civil Engineering. I have been a member of the Scientific Committee of the Water Environment Federation Annual Nutrient Removal and Recovery Conference since 2013.



CAPEES

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5. *Major attractions and cultural environment of your area and/or community?*

Winnipeg is the capital of the Canadian province of Manitoba. Its heart is The Forks, a historic site at the intersection of the Red and Assiniboine rivers, with warehouses converted to shops and restaurants, plus ample green space dedicated to festivals, concerts and exhibits. Nearby, the Exchange District is known for its well-preserved, early 20th-century architecture and numerous art galleries.

6. *Key factors that lead to your career today?*

“Education is the most powerful weapon which you can use to change the world.”

— Nelson Mandela



Dr. Qiuyan Yuan and her research group