



FEATURED MEMBERS



Dr. Qingye Lu (吕清叶)

Assistant Professor

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1. My career path?

I received my Ph.D. in Analytical Chemistry from University of Alberta, Canada under the supervision of Professor Jed Harrison, subsequent to completion of a M.S. in Electrochemistry and a B.S. in Chemistry both from Wuhan University. Prior to starting as an Assistant Professor at the Department of Chemical and Petroleum Engineering at the University of Calgary, Canada in 2016, I was a postdoctoral fellow in Chemical and Materials Engineering/Environmental Engineering at the University of Alberta under the supervision of Professor Hongbo Zeng and Professor Yang Liu.

2. Your current research areas, interests, and projects?

My groups' research focuses on two aspects, the first one is to utilize advanced analytical techniques like QCM-D, AFM, SFA, etc. to understand surface and interfacial sciences applicable in energy and environment; and the second one is to develop bioinspired nanocomposite materials and naturally derived polymers for environmental and energy applications, like bioinspired nanocomposite materials for oil sands produced water and tailings treatment. My research is largely funded by Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant, NSERC Engage Grant, Canada First Excellence Research Fund, and industrial collaborators such as Suncor, Stantec and Alberta Innovates.

3. Courses you normally teach?

I have been teaching Engineering Design and Economics, Chemical Engineering Process Development, Oil&gas Engineering Process Development, Wastewater Issues for the Oil and Gas Industry, and Electrochemical Engineering, Chemical Engineering Laboratory, Special Projects - Polyacrylamide Hydrogels for Environmental Applications.

4. My professional activities?

I am a member of the Canadian Chemical Engineering Society, Chemical Institute of Canada (CIC) and also a member of the Association of Professional Engineers and Geoscientists of Alberta, Canada (APEGA).



CAPEES

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5. *Can you briefly describe major attractions and cultural environment of your area and/or community?*

Calgary is a city in Alberta, one of western Canadian provinces. Calgary has been recognized 5 years in a row as one of the most livable cities in the world. It hosts Calgary Stampede, the largest outdoor show in the world, every July which is an annual rodeo, exhibition, and festival. The city of Calgary is only hours drive from worldwide famous Canadian national parks like Banff, Jasper, Yoho and Kootenay national parks.

6. *My thoughts on key factors that lead to your career today?*

One of the most wonderful things about being a professor is that, to certain extent, I have the freedom of researching whatever I am interested in.



Dr. Qingye Lu and her research group (2018 summer)