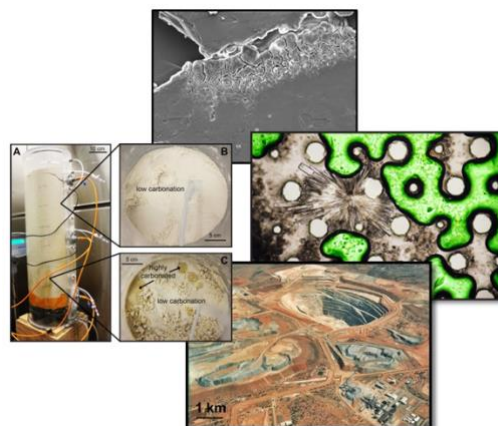


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How do humans impact the environment?  
How can geochemistry give us a window into  
past environmental conditions?  
How can we harness naturally occurring  
geochemical reactions to reduce environmental  
harm?

If these questions intrigue you, consider applying to the Environmental and Aqueous Geochemistry group at Queen's.



**Two students (MSc or PhD) will be hired for one or two of the following topics:**

- **Gas-driven mineral weathering:** probing links between availability of reactive gases ( $\text{CO}_2$  and  $\text{O}_2$ ) and the carbon cycle
- **Water-limited weathering:** How does availability of water influence mineral dissolution-precipitation reactions?
- **Capturing carbon:** enhancing natural reactions to offset greenhouse gas emissions
- **Non-traditional stable isotopes in weathering and carbonate systems:** Fractionation factors, implications, and proxies

**Projects on mineral-fluid-gas interactions, contaminant cycling, and related topics can also be developed depending on the interests of the applicant.**

**Please apply to Dr. Anna Harrison by email ([anna.harrison@queensu.ca](mailto:anna.harrison@queensu.ca)) by November 15, 2019 for full consideration.** Use the subject line: Graduate opportunities 2020. Include a CV, statement of interest describing your research interests, your reasons for pursuing a graduate degree, and your qualifications, a transcript of previous degrees, and contact information for three referees. **The position will start in Sept 2020.** I am committed to fostering a diverse and inclusive research group and welcome applications from students from historically underrepresented groups.