

THE OCTAGON

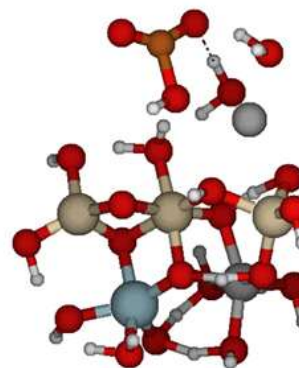
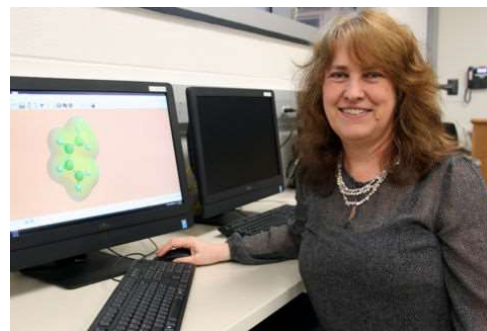


VIRTUAL OCTOBER MEETING HOSTED BY ALBRIGHT COLLEGE

Albright College will host a webinar and virtual LVACS Business meeting Thursday, October 15th from 7:00 to 8:00 pm. Lorena Tribe, PhD will speak on:

“Where will all of the CO₂ go?”

Many solutions have been considered to address the climate crises and to mitigate the effects of greenhouse gases in the atmosphere. One route to carbon sequestration is the removal of carbon dioxide from the atmosphere by injecting it below the Earth's surface in appropriate geological formations. This approach raises the question about CO₂ interactions with mineral surfaces. Detailed atomistic first principle calculations such as Density Functional Theory provide insights about the nature of these interactions, allowing for the modeling of both surface complexes and of the kinetics of the adsorption-desorption processes. In this work we address the issue of the effects of water on the adsorption process of CO₂ on montmorillonite and kaolinite substrates, chosen to model swelling vs. non-swelling clays.



Dr. Lorena Tribe is a Professor of Chemistry at Penn State Berks. Tribe's area of research is theoretical chemistry and surface chemistry. Currently she is investigating interactions of small molecules with surfaces with her undergraduate students. Some projects are the interactions of small organic/biological molecules with clays for drug delivery systems, interaction of arsenic with environmental interfaces, fate of hydraulic fracturing fluid additives in the environment, and interactions of methane and carbon dioxide with shale components for enhanced gas recovery and carbon sequestration. The methods used range from developing in-house programs on local computers to using front end software packages remotely on Penn State's super computers.

Thursday, October 15, 2020
7:00-7:45 pm: Webinar
7:45-8:00 pm: LVACS business meeting



WEBINAR LINK: <https://american-chemical-society.zoom.com/j/83438030525?pwd=ek91cTIHTjNwN1E3WWNTWm1ZS3A1Zz09>

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