

kt428

Karin Teuffer's Individual Contribution Page

Personal goals / Contributions

Spring 2017

As a new member of the Rapid Mix Contact Chamber team I look forward to expanding my knowledge on the process beyond what I learned in 4540.

Focusing on a specific part of the plant will be beneficial to understanding the physics of the coagulant - particle interactions as well as the parts in the plant where

it is possible to enhance floc formation. This means working quickly to design a flocculator with which to test the contact chamber.

It took a couple of weeks to get over the learning curve associated with the lab equipment, ProCoDA and understanding the best way to start the experiments, but we

finally started running trials using last semester's set up . We have found significant differences between our results and Fall 2016's report of the interaction between clay

and coagulant when run without a contact chamber . Next, we will be testing the contact chamber from last semester.

In addition, we discovered, after many talks with Monroe, that surface area ratios between the clay and the contact chamber greatly affect flocculation efficiency. This will be prioritized in our new designs.