

Date: 26 November 2015

Smith Lab Meeting

Individuals in Attendance

Bianca Pereira, Tamzin Blewett , Mona Alshammari, Christian Agueci, Rabia Nasir, Captain Choi, Giselle Cameron, Elissa Dow, Farah Ateeq, Alex Carvajal and Holly Gray (Seana possible future MSC student)

Individuals in Absentia

Ben Chen, Matt Boag, Sydney (volunteer)

Opening Remarks - Scott Smith Announcements

- Phase II of the lab clean up (to set date soon...)
- Lab Presentation: Alex, Holly week after
- Scott had awesome trip - loved chance to think about doing research and experiments (has three papers now! WOOT! Three papers!! WOOT WOOT!!!)
- Jan 22 - Department Seminar a la Scott
- Introduced ourselves to Seana (Hey Seana!)
- Gananoque? Send Scott Abstract
- Measurements need to be done - CRS (Giselle/Rabia?), DOC, Metals

Lab Issues

- Giselle to clean the acid bath after sample is tested on ICP (by Holly)
- Waste job up for grabs

Lab Member Updates

<i>Individual</i>	<i>Weekly Update</i>
Farah	<ul style="list-style-type: none">- sent Scott email (VK says cool results)- ran wastewater samples - removal of 95 - 97% P- lower Fe:P ratio had around 85% removal- repeating samples next week- looked at effect with and without peroxide (strange results)- giving Giselle and Elissa samples to be measured for DOC- testing improved detection of P on ICP (plasma seems more stable after 1 hour instead of 30 minutes)
Giselle	<ul style="list-style-type: none">- haven't tested solid state ISE again (next week)- trying 300 ppt again- will do TOC/DOC and CRS samples for Scott- shipping DOC sample (won't be sending Luther Marsh anymore because ran out of resin and will take too long)- which sample to send? Sample needs to be resonated and characterized
Alex	<ul style="list-style-type: none">- writing
Captian Choi	<ul style="list-style-type: none">- working on chapter 2- making new code for matlab for freundlich isotherm

Rabia	<ul style="list-style-type: none"> - transformation/dissolution experiments with commercial nanoparticles - will send file to scott - no change after 24 hours (at all wavelengths) - mass sliver (1 mg/L OECD water) - pretty high conc - 10 cm pathlength - Monday - set up BOD experiment - Tuesday, Thursday and Saturday sampling - measured nitrate, ammonia (nitrite didn't work, DO also didn't work) - tomorrow nitrite - Wednesday training for furnace and flame (for Ag)
Elissa	<ul style="list-style-type: none"> - prepping vials and samples for TOC/TN being run tomorrow - focusing on ISE (will try some of the things discussed earlier) - protein kit
Holly	<ul style="list-style-type: none"> - shipped carboys to be filled with sample from York Region - set up visit to Oakville WWTP on Monday for sampling - ready to do 20 mg P/L SWW tests with 1 and 5 % desorption (for Tuesday) - newsletter draft almost complete (farah done and daniela set write up) - engage grant - editing draft of manuscript for batch tests - plan on doing column test next week for real waste water (on Thursday) - Giselle/Elissa to run doc samples
Mona	<ul style="list-style-type: none"> - titrations - will send data - tried pump today (and worked)
Christian	<ul style="list-style-type: none"> - bad results last week (remade reagents) - he sucked - Christian did not suck this week - did digestion and measured samples
Tamzin	<ul style="list-style-type: none"> - last week: T. B. & E. - Experiment ruined (temp) - repeat next week (Monday or Tuesday) - have everything ready - this week furnace measurements - Samples from Martin have been shipped (have to determine if they will be used - Elissa to do scan to see if any different) - doing arctic stuff (Elissa did scan last week - lots of Humic/fulvic)

Bianca	<ul style="list-style-type: none"> - trained on furnace, ran samples on Wednesday - restarted experiment, made new reagents - information in document - can show scott tomorrow more detail - NaNO₃ and artificial seawater side by side - changed amount of resin between trials and will do both electrolytes with same amount of resin - scott needs results before going on
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Lab Presentations:

Rabia – Silver BOD Experiments

Seana – Sweeter than Sugar: Analysis of Artificial Sweeteners Aspartame and Sucralose