

Date: 22 October 2015

Smith Lab Meeting

Individuals in Attendance

Mona Alshammari, Bianca Pereira, Sydney (volunteer), Christian Agueci, Tamzin Blewett, Captain Choi, Giselle Cameron, Elissa Dow, Farah Ateeq, Alex Carvajal and Holly Gray

Individuals in Absentia

Ben Chen, Rabia Nasir, Matt Boag

Opening Remarks - Scott Smith Announcements

- Scott got Ni CRD grant!!!
- Calls for CFI grant – need \$3 million matching funds
- Purifics proposal has gone in – will know soon if it will be accepted
- Amazon – still getting organised to go (11 until 24 of November)
- Metrohm – titration cell with lid (call/email again?)
- Ben coming the week of the 26 (October) – titrator/voltammeter
- Luther Marsh organic collection – Giselle shipping sample to UK and Bill Stubbelfield (Jim has managed that)
- Funding news – Jim got strategic grant (Scott is on it as well)
- Presentation next meeting: Alex Loveridge and Tamzin to do SETAC presentations
- Lab treats:
- Phase II of the lab clean up (to set date soon...)

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">- ran ICP and sent scott data- carry over of sample- working on article for newsletter- need customs broker information from Scott- shipping of wastewater samples- next week: auto analyser with Christian
Tamzin	<ul style="list-style-type: none">- furnace all week- should be done all samples on Friday- next week: stuff for conference call- next week: will send presentation- SETAC after that- urchins coming- bioaccumulation: working on SOP, looking for licence at Mac than to do WLU
Giselle	<ul style="list-style-type: none">- tried $\frac{1}{2}$ and $\frac{1}{4}$ recipe for membranes- $\frac{1}{4}$ membrane too thin and leaked- half recipe was calibrated

	<ul style="list-style-type: none"> - slope of 4 and R^2 0.99 - ionic strength too high (?) (activity correction is too big if ionic strength is too high) - Scott suggests trying milliQ water with Pb (pH?) - make sure above pH 3. - Luther Marsh shipping - no more 2014 so going to send 2015 but still has to be concentrated, measured and characterised. - to ask if they want resonated
Alex	<ul style="list-style-type: none"> - just had meeting - modelling and writing - waste is once a month, next is November 18
Captian Choi	<ul style="list-style-type: none"> - writing thesis - need assistance in notes from Scott - made matlab code but need help from Scott (send matlab code via email)
Sydney	<ul style="list-style-type: none"> - still has no equipment - courses are good
Elissa	<ul style="list-style-type: none"> - portable fluorometer readings of new samples (past 5 days) - will plot data - try making different membrane thicknesses - test membrane that was dried in the oven - clean flow through setup
Holly	<ul style="list-style-type: none"> - doing an flow through this week - to do three next week - ICP booked 2 November - working on newsletter - away 9 - 17 November
Mona	<ul style="list-style-type: none"> - will do experiment this week - rabia is sick, so experiment is shift to tomorrow - prepared EDTA
Christian	<ul style="list-style-type: none"> - just had meeting this morning - practice presentation today
Bianca	<ul style="list-style-type: none"> - Monday - finished expts and sent scott data - prepared more electrolyte and Ni + electrolyte - do expts next week - try to keep pH above 6 - worked on presentation - Tamzin and Bianca to do urchins next week - furnace booked week of 2 November - safety training taken care of

Lab Presentations:

Undergrads practicing proposal presentations

Christian Agueci – A comparison of the detection of total P between ICP-OES and Colorimetric Analysis

Bianca Pereira – Determining the speciation of Ni^{2+} in Seawater via Ion Exchange Technique: Relating Free Metal Ion Activity and Ni^{2+} Toxicity in Sea Urchin Embryos