

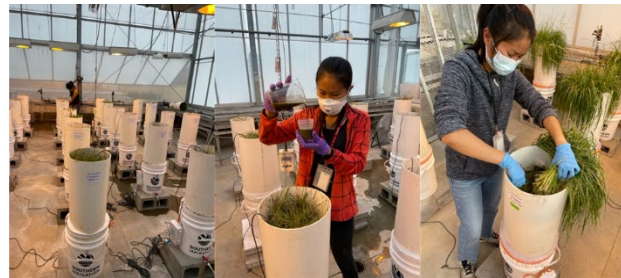
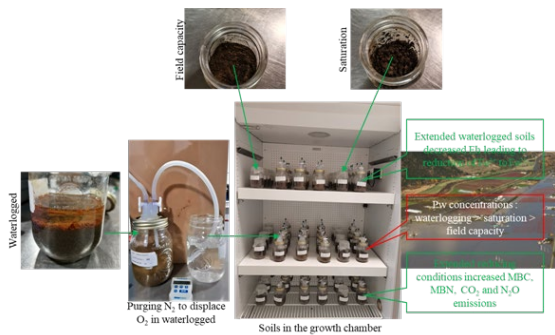
This week in Soil Science

Title: Solubility of soil phosphorus in extended waterlogged land: evidence from incubation and greenhouse studies

Authors: Aimé J. Messiga (Agassiz RDC), Thidarat Rupngam (Agassiz RDC and Laval University), Antoine Karam (Laval University)

Venue: UBC - Vancouver Campus, Soil seminar, Friday October 14 at 3.00pm

Abstract: Understanding how extended excess soil moisture exacerbated by extreme weather events affects changes in iron (Fe) chemistry is crucial for assessing environmental risk associated with soil phosphorus (P). The objective of this presentation is to provide insights on the effects of soil moisture regimes on the (i) reduction of ferric (Fe^{3+}) to ferrous (Fe^{2+}) iron, and (ii) solubility of soil P. The methodology and results from incubation and greenhouse studies conducted at Agassiz RDC using soil samples and intact soil columns will be presented. Our results show that soils maintained under extended anoxic conditions could increase the solubility and availability of P and subsequent risk of P transport to surface and drainage waters.



Incubation study

Greenhouse study

How to Join

In-person McMI 154 Please note that Aime will be joining us from Agassiz in-person.

Livestreaming via zoom is available for this presentation; pre-registration required.

<https://ubc.zoom.us/meeting/register/u5Ukd-6pqzkiH9C6n4jDB67hk1fZhy2OL6kL>

After registering, you will receive a confirmation email containing information about joining the meeting.

ALL WELCOME