

**Hubbard Brook Committee of Scientists Meeting**

**Friday, October 16, 2020: Connect Via Zoom**

**Meeting ID: 996 9445 4568**

**Passcode: 041259**

**Proposing Research on Phosphorus for the LTER Renewal**

10:00 - 10:15	Welcome & Introductions	Christy Goodale
10:15 – 10:30	Introduction: WMNF Forest Supervisor, Derek Ibarguen	Christy Goodale
10:30 - 11:30	<p>P Limitation in MELNHE</p> <p>P concentrations and primary/secondary forms in soil and bedrock</p> <p>Soil P fractions, and what happens under soil acidification</p> <p>Soil water and stream solutions and secondary mineral formation</p> <p>Stream P concentrations are usually below detection, but not always. Should we try harder to detect it?</p> <p>Climate change and P cycling</p> <p>What is the nature of competition for P between ectomycorrhizae and arbuscular mycorrhizae?</p> <p>What are the implications of changes in microbial communities, maybe with pH, for P mineralization?</p> <p>What is the physiology of foliar P resorption and how is it coupled mechanistically to N resorption?</p> <p>N, P, and the nutritional stoichiometry of primary consumers</p> <p>Speculations on phosphorus dynamics in streams of HBEF</p>	<p>Ruth Yanai</p> <p>Jenny Bower, Don Ross, Scott Bailey</p> <p>Melany Fisk</p> <p>Charley Driscoll</p> <p>Jeff Merriam, Mark Green</p> <p>Pam Templer</p> <p>Rich Phillips</p> <p>Peter Groffman</p> <p>Tim Fahey, Kara Phelps, Dan Hong</p> <p>Matt Ayers</p> <p>Audrey Thellman</p>
11:30-12:00	<p>DEI update</p> <ol style="list-style-type: none"> <li>a. Review feedback from Cooperator’s Meeting</li> <li>b. Overview of current DEI tasks</li> <li>c. Articulate a realistic, near-term plan</li> </ol>	Clara Chaisson
12:00 - 12:30	Lunch Break	Random breakout
12:30 - 1:00	Small group discussion	Breakout by topic choice
1:00 - 2:30	Large group discussion	Moderator: Ruth Yanai

## Potential Discussion Topics

P Limitation in MELNHE

P concentrations and primary/secondary forms in soil and bedrock

Soil P fractions, and what happens under soil acidification

Soil water and stream solutions and secondary mineral formation

Stream P concentrations are usually below detection, but not always.  
Should we try harder to detect it?

Climate change and P cycling

What is the nature of competition for P between ectomycorrhizae and arbuscular mycorrhizae?

What are the implications of changes in microbial communities, maybe with pH, for P mineralization?

What is the physiology of foliar P resorption and how is it coupled mechanistically to N resorption?

What is most interesting about heterotrophs and P?

What is most interesting about stream ecosystems and P?