			Draft Agenda for January Meeting of the HBES					
			Meeting is online via <u>Zoom</u>					
	Hubbard Brook Quarterly Project Meeting: Thursday January 7, 2021 (Day 1: morning)							
Begin	End	Last name	Торіс					
10:00	10:04	Pam/Peter	Welcome to Lightning Talks					
10:04	10:08	Ayres	Global change and the heterotrophs of Hubbard Brook					
10:08	10:12	Battles	Measuring and monitoring canopy structure in Hubbard Brook Valley: New insights to old questions					
10:12	10:16	Beier	A Virtual Reality Forest Visualization Toolkit for Public Engagement					
10:16	10:20	Bernhardt	A vision for basin-wide stream ecology at Hubbard Brook					
10:20	10:24	Bhatnagar	Understanding soil microbial ecology through long-term research at Hubbard Brook					
10:24	10:28	Burchstead	Instream log tracking					
10:28	10:32	Campbell	Measuring and monitoring canopy structure in Hubbard Brook Valley: New insights to old questions.					
10:32	10:36	Chandler	Shifts in edaphic thermodynamics for seasonally snow-covered forest sites: A comparative analysis					
10:36	10:40	Christenson	Monitoring large heterotrophs across Hubbard Brook					
10:40	10:44	Cleavitt	Annual tree growth measures: the missing link to integration					
10:44	10:48	Contosta	Exploring changing resilience at Hubbard Brook using novel analytical or experimental approaches					
10:48	10:52	Fahey	Multiple Element Limitation in Northern Hardwood Ecosystems (MELNHE)					
10:52	11:00	ALL	BREAK					
11:00	11:04	Gannon	Developing data visualization and analysis tools for researchers and the public					
11:04	11:08	Garlick	Can the Hubbard Brook LTER program be both discovery-driven and solutions-oriented					
11:08	11:12	Goodale	Have plant N demand and nitrogen gas fluxes changed at Hubbard Brook?					
11:12	11:16	Green	Pursuing drivers of recent increases in evapotranspiration					
11:16	11:20	Green	Quantifying total P in streams					
11:20	11:24	Groffman	The changing carbon cycle					
11:24	11:28	Hallworth	Foliar N - the missing link between biogeochemistry, population dynamics and biodiversity					
11:28	11:32	Kaiser	Effects of a lengthening green season on breeding strategies of a migratory bird					
11:32	11:36	Keeton	Future Forest-Future Streams (FUFOR) project					
11:36	11:40	Kelsey	Do Horizontal Fluxes Explain the Energy and Water Budget Gaps					
11:40	11:44	Lavalle	The Role of the HBRF in Outreach, Education, and Community Relations					
11:44	11:48	Lowe	Ecology and Evolution in an Era of Increasing Climate Variability					
11:48	11:52	McGuire	Implications on the limits and dynamics of temporary and perennial streams at Hubbard Brook					
11:52	11:56	Ollinger	Does Hubbard Brook need a new model of the nitrogen cycle					
11:56	12:30	ALL	LUNCH in randomly assigned break-out rooms					

Hubbard Brook Quarterly Project Meeting: Thursday January 7, 2021 (Day 1: afternoon)

Begin	End	Last name	Торіс
12:30	1:00	Goodale	COS business meeting
1:00	1:10	Pardo	Brief update on DEI activities
1:10	1:27	Break-out #1	Select topic from:
			1. Increasing social interaction
			2. Inclusive recruiting for this field season
			3. Increasing diversity in PIs (better language) CLG
			4. Indigenous knowledge—ways to build a regional coalition
			5. Creating a mechanism for anonymous feedback
			6. Code of Conduct
			7. Intentional Community Building
1:27	1:30	Pardo	Introduction to Break-out #2
1:30	1:40	Break-out #2	Brainstorm: Increasing scientific interaction at HBES. Random room assignment
1:40	1:50	Pardo (facilitator)	Report from Break-out #2
1:50	2:00	Pardo (facilitator)	Prioritizing next steps

			Friday January 8, 2021 (Day 2: morning) Meeting is online via <u>Zoom</u> Building an N Budget (Moderator: Linda Parde	
Time	Торіс	#	Calculations and Methods	Presenter
	Soil pools	1	Total N Pools labile microbial* readily mineralizable	Chris Johnson
		2	Cold water Hot water extractions	Chris Johnson
		3	N in weathered rocks	Chris Johnson
		4	(More from Chris)	Chris Johnson
		5	Annual flux from N min and Nitrif in the field (buried bag) & potentials from lab incubations	Groffman
		6	Depth profiles	Christy Goodale
10:00	Soil fluxes		Recent gross and net N min Scaled across depth**	Christy Goodale
to		7	Summing W3 extractions (lab incubations) by horizon * HPU	Pardo
		8	Resin N data	Fisk
12:00		9	Gaseous N flux	Groffman
	Internal	10	15N tracer	Fuss
		11	Snow & winter export	Campbell
		12	winter natural abundance	Campbell
	Stream fluxes	13	Stream flux in small Disturbances-all WS	Pardo
		14	N pool transferred from stream to forest (Main HB)	Burchsted
		15	Spatial patterns of high DOC	Green
	Soil solution	16	Calculate fluxes by HPU and scale up to catchment	Driscoll/LoRusso
		17	Groundwater N pool Snapshots in time	Strahm
		18	Forest n uptake estimate	Yanai
	Plant	19	Foliar pools + resorption	Hong
		20	Moose N budget?	Christenson?
12:00 -	12:30		LUNCH in randomly assigned break-out ro	

Hubbard Brook Quarterly Project Meeting: Friday January 8, 2021 (Day 2: afternoon)

Begin	End	Last name	Торіс	
			Linking long-term stream chemistry to a high-resolution solution chemistry network: tools for predicting catchment-scale	
12:30	12:34	Pardo	response to climate change	
12:34	12:38	Pardo	Using the LTER renewal to shape the HB of the future - diversity, inclusion, and developing new leaders	
12:38	12:42	Richardson	Phenology, growing season length, and forest productivity	
12:42	12:46	Rosi	Sustaining the long-term precipitation and stream chemistry and stream ecology records of HB watersheds	
12:46	12:50	Rustad	Following Canopy Recovery at the HB Ice Storm Experiment: Watching and Waiting for a Midlife Crisis?	
12:50	12:54	Rustad	The HBR ArtSci Program: Blending Art and Science to Address Socio-Ecological Issues of the 21st Century	
12:54	12:58	Templer	Climate change across seasons (CCASE) experiment and nitrogen oligotrophication/winter climate change	
12:58	1:02	Vadeboncoeur	Sapflow and tree-ring isotope measurements to understand recent changes in small-watershed evapotranspiration	
1:02	1:04	Yanai	Quantifying Uncertainty in Ecosystem Studies (QUEST) and ecosystem P budgets with uncertainty	
1:04	1:08	Young	Luring the NEON AOP to Hubbard Brook with the assignable asset program	
1:08	2:00	Peter/Pam	DISCUSSION	