Hubbard Brook Cooperators' Meeting

April 19, 2017 at the Cary Institute

**REV 1.0 Meeting Agenda**

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| **Resilience: Theory and Measurement at the Hubbard Brook Experimental Forest** | | | |
| Begin | End | Speaker | Topic |
| 10:00 am | 10:10 am | Groffman/Battles | Resilience: Fad or Foundation? |
| 10:10 am | 10:25 am | Levine | Dimensions of resilience: a working framework for management |
| 10:25 am | 10:40 am | Groffman | What is a state shift? |
| 10:40 am | 10:55 am | Green | Hydrological resilience |
| 10:55 am | 12:00 am | Break-out groups | Explore dimensions of resilience at HBES:  Biogeochemistry, Hydrology, Vegetation, Heterotrophs |
| 12:00 pm | 1:00 pm | Lunch |  |
| 1:00 pm | 1:45 pm | Campbell | Long-term research question: How best to maintain and report precipitation record at HBES? |
| 1:45 pm | 2:10 pm | Break-out groups | Summarize break-outs |
| 2:10 pm | 3:00 pm | Discussion/Next Steps | Is resilience the heir to disturbance as the major theme for HB ecosystem study? |
| 3:00 pm | 3:30 pm | Templer/Battles (moderators) | COS business meeting |

**Questions to consider regarding resilience at Hubbard Brook Ecosystem Study**

1. How amazing is the resilience of watershed 2?

2. If we repeated the watershed 2 experiment today, would we get the same result given a) 50 years of acid rain and base cation depletion and b) 50 years of climate-change driven nitrogen oligotrophication?

3. What could we learn about resilience by comparing watershed 2 and watershed 5?

4. What could we learn about resilience from the blowdown?

5. How can we anticipate surprises at Hubbard Brook and their implications for disturbance (e.g., fire, landslides, giant floods, and blowdowns)?

6. Can we inform adaptive silviculture by exploring results from the forest management experiments at Hubbard Brook (W101, W4, and W5 experiments)?

7. How do we integrate ideas of resilience for primary producer and consumer populations?