

Center for Oldest Ice Exploration

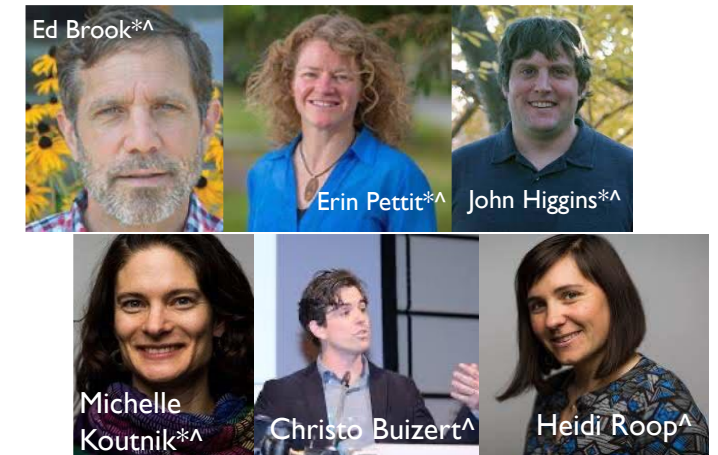
Ed Brook, OSU College of Earth, Ocean,
and Atmospheric Sciences (CEOAS) on
behalf of the **COLDEX** Team





What is COLDEX?

- Pending proposal to the NSF Science and Technology Center Competition.
- 5 years, \$25M, typically renewed for another 5 years.
- Final decision in June
- 16 institutions, 36 participants.
- Explore Antarctica for the oldest possible ice core records.
 - Explore the ice margin to extend records in to the Pliocene.
 - Find a US site for an interior 1.5 Ma ice core.
 - Radar data acquisition, interpretation, modelling, rapid access.
- Broaden participation in polar science including K-12 programs.
- Train next generation of scientists and teachers.
- Develop new technologies (radar, thermal probes, lab instrumentation and methods).
- Transfer knowledge about polar science.



PIs (*) and Executive Committee (^)



Links to the broader ice core community?

- Open meetings, workshops, professional development programs, REU program, research scholarships for students and post docs.
- Open to new collaborations.
- Phase 1 (years 1-5) drilling in blue ice areas – archive of old ice for community use.
- Phase 2 (years 6-10) – deep ice core – further archive of old ice for community use.
Opportunity for new formal partners in Phase 2.

