Thursday, April 25, 2024

3:30 – 3:55  Coffee and Registration
3:55 - 4:00  Welcome and Intro
            Prof. Liza Comita and Prof. David Bercovici, YCNCC Co-Directors
            Prof. Matthew Eisaman, Symposium Organizer
4:00 – 4:30  Keynote address: mCDR – the view from NOAA
            Dr. Sarah Kapnick, Chief Scientist for NOAA
4:30 – 4:50  Invited talk: Energy and Innovation: mCDR at DOE and PNNL
            Dr. Jessica Cross, Earth Scientist at Pacific Northwest National Lab (PNNL)
4:50 – 5:10  Invited talk: The Evolving Legal Landscape for mCDR
            Romany Webb, Deputy Director at Sabin Center for Climate Change Law at Columbia University
5:10 – 5:30  Invited talk: MRV for mCDR – Current status and future goals
            Dr. Matt Long, Co-Founder and CEO of [C]Worthy
5:30 – 7:30  Reception
Friday, April 26, 2024

8:30 – 9:00 Breakfast and Registration
9:00 - 9:45 Panel: Monitoring, Reporting, and Verification – Challenges and Opportunities
   Dr. Alicia Karspeck, [C]Worthy (moderator); Prof. David Ho, [C]Worthy; Anu Khan, Carbon180; Anna Madlener, Carbon to Sea Initiative; Dr. Jenny Mills, Cascade Climate.

9:45 - 10:45 Ten-Minute Talks: mCDR research highlights and recent policy developments
   1. Isometric’s MRV protocol for OAE
      Dr. Jennifer Yin, Isometric
   2. Impulse response functions as a framework for quantifying carbon uptake associated with ocean alkalinity enhancement.
      Dr. Elizabeth Yankovsky, [C]Worthy and Yale University
   3. Mapping the global variation of OAE efficiency for CDR
      Mengyang Zhao, University of Connecticut
   4. OAE simulation: Model uncertainties and atmosphere feedback effects
      Dr. Michael Tyka, Google
   5. The additionality problem of OAE
      Prof. Lennart Bach, University of Tasmania
   6. The U.S. Government’s Fast Track Action Committee for Marine CDR
      Dr. Greg Frost, NOAA

10:45 - 11:05 Coffee break
11:05 – 11:45 Panel: The State of mCDR Carbon Removal Purchases and Investment
   Toby Bryce, The OpenAir Collective; Katie Sierks, Microsoft; Rory Jacobsen, DOE; Dr. Marc von Keitz, The Grantham Foundation for the Protection of the Environment; Reece Pacheco, Propeller VC.

11:45 – 1:00 Lunch
1:00 – 2:40. Ten-minute Talks: Recent progress in mCDR Deployment and Commercialization
   1. The Accelerated Weathering of Limestone on Ships
      Prof. Jess Adkins, Calcarea
   2. Accelerating the responsible development of OAE technologies through non-profit science
      Dr. Grace Andrews, Hourglass Climate
3. Emerging sensing and instrumentation technology for MRV in support of mCDR commercialization  
   Dr. Ellen Briggs, Aquatic Labs
4. TBD  
   Dr. Will Burt, Planetary Technologies
5. Progress in developing direct ocean capture technology for marine carbon dioxide removal.  
   Dr. Sophie Chu, Captura
6. Equatic-1: Pioneering the Future of Carbon Removal and Carbon-Negative Hydrogen Production at Scale  
   Prof. Erika La Plante, Equatic
7. TBD  
   Prof. Thomas Peacock, atdepth MRV
8. Laboratory and field MRV development to support OAE pilot trials  
   Dr. Mallory Ringham, Ebb Carbon
9. Learnings from early explorations into mCDR commercialization  
   Brad Rochlin, Running Tide
    Prof. Alex Gagnon, Banyu Carbon

2:40 – 3:00 Coffee break
3:00 – 3:45 Panel: Responsible deployment of mCDR - Managing the tension between caution and urgency.  
   Dr. Gabby Kitch, NOAA (moderator); Dr. Rudy Kahsar, Rocky Mountain Institute; Dr. Sifang Chen Carbon180; Brad Ack, Ocean Visions; Freya Chay, CarbonPlan.

3:45 – 4:30 Panel: Policy, regulation, and standards  
   Hara Wang, Cascade Climate (moderator); Romany Webb, Columbia University; Anu Khan, Carbon 180; Dr. Wil Burns, American University and Northwestern University.