Community Updates

• COLDEX
• Herc Dome
• ICE CR eW
• La Jolla Open Ice Core Science Meeting
COLDEX is Designed to Find and Analyze the Oldest Possible Ice Cores

**Goals**
- Modelling ice flow and history to understand old ice
- Advanced radar imaging of ice sheet structure and dynamics
- Novel thermal probes for ice sheet age vs. depth relationship
- Ice coring on margin and interior
- Ice core analysis including dating old ice with advanced methods and new centralized facility
- New efforts in broadening participation, diversity and

**Status**
- Funded by NSF Office of Integrative Activities 2021-2026, renewal proposal to 2031 expected
- Programs and staff gearing up now
- First airborne geophysics and possible ground based work in 2022/2023 season (S. Pole \(\rightarrow\) Dome A region)
- First ice coring at Allan Hills in 23/24 (I-165 [Higgins] drilling there in 22/23)
- Workshops, annual meetings, seminars, REU program, scholarship funds in progress – many programs will be open to all ice coring community in US
Herc Dome – promising drill location at West Dome

Manuscript to be submitted next month

Traverse in 23/24
Drilling beginning in 24/25
ICECReW

• Ice Core Early Career Researcher Workshop
• I think we had a student of everyone on the ICWG
• 55 participants
• Great virtual* meeting
• Goal 1 – connect and mobilize early career folks most impacted by pandemic
• Goal 2 – develop synthesis papers
• 1/3 of time spent on career and community development
• 1/3 time on scientific development
• 1/3 of time spent on developing ideas for synthesis papers
### Thursday, January 6th

<table>
<thead>
<tr>
<th>Start Time (MST)</th>
<th>Schedule</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Welcome</td>
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<tr>
<td>8:30</td>
<td>Synthesis Breakout Discussion 1</td>
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<tr>
<td>9:30</td>
<td>Mental Health Awareness + Q&amp;A</td>
<td>Dickerson</td>
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<tr>
<td>10:30</td>
<td>Mental Health Breakout Discussion</td>
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<tr>
<td>11:00</td>
<td>Ice Core Successes + Q&amp;A</td>
<td>Alley, Orsi</td>
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<tr>
<td>12:00</td>
<td>Lunch</td>
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<tr>
<td>13:00</td>
<td>Science Communication + Q&amp;A</td>
<td>Rosen</td>
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<tr>
<td>14:00</td>
<td>Synthesis Breakout Discussion 2</td>
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<tr>
<td>15:00</td>
<td>Break</td>
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<tr>
<td>15:30</td>
<td>NSF &amp; Community Resources + Q&amp;A</td>
<td>Cutler, Sutherland, Souney</td>
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<td>16:10</td>
<td>Proposal Writing + Q&amp;A</td>
<td>Greg Balco, Laurence Yeung</td>
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<tr>
<td>17:10</td>
<td>Synthesis Breakout Discussion 3</td>
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<tr>
<td>17:00</td>
<td>Wrap-up</td>
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### Friday, January 7th

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<tr>
<td>8:00</td>
<td>Synthesis Breakout Discussion 4</td>
<td>Brook, Steig, Criscitiello, McConnell, Rupper</td>
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<tr>
<td>9:00</td>
<td>Ice Core &amp; Related Projects Part I</td>
<td>Neff, Osterberg, Winski, Mikucki, Goehring, Pettit</td>
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<tr>
<td>10:00</td>
<td>Break</td>
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<tr>
<td>10:30</td>
<td>Ice Core &amp; Related Projects Part II</td>
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<tr>
<td>11:30</td>
<td>Projects Q&amp;A</td>
<td>all speakers from morning sessions</td>
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<tr>
<td>12:00</td>
<td>Lunch</td>
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<tr>
<td>13:00</td>
<td>Synthesis Example + Q&amp;A</td>
<td>Tierney</td>
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<tr>
<td>14:00</td>
<td>Synthesis Breakout Discussion 5</td>
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<tr>
<td>14:30</td>
<td>Anti-Racism in Academia + Q&amp;A</td>
<td>Berhe</td>
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<tr>
<td>15:30</td>
<td>Break</td>
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<tr>
<td>16:00</td>
<td>Synthesis Breakout Discussion 6</td>
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<tr>
<td>17:00</td>
<td>Wrap-up</td>
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ICECReW

- HUGE THANK YOU to
- Summer Rupper
- Jessica Badgeley (PhD student, UW)
- Asmita Banerjee (PhD student, RICE)
- Katie Wendt (Postdoc, Oregon State)
- Bess Koffman (Assistant Professor, Colby)
ICECReW Synthesis Papers

• Desire to community to undergrds and adjacent scientists
• Write 11 two-page articles in Past Global Changes magazine

1. Life cycle of an ice core: Collection, transport, storage, records obtained
Lindsey Davidge, PhD Student, University of Washington
Hanna Brooks, PhD Student, University of Maine
Merlin Mah, Postdoc, University of Minnesota
Bradley Markle, Assistant Professor, University of Colorado

2. Methods used to date ice cores
Kaden Martin, PhD Student, Oregon State University
Meredith Helmick, PhD Student, University of Maine
Samantha Barnett, Masters Student, Northern Arizona University
T.J. Fudge, Research Assistant Professor, University of Washington

3. Atmospheric change through time from ice cores
Asmita Banerjee, PhD Student, Rice University
Ben Riddell-Young, PhD Student, Oregon State University
Ursula Jongeblaed, PhD Student, University of Washington

4. Ice core insights on past climate change
Kathleen A. Wendt, Postdoc, Oregon State University
Hayley Bennett, PhD Student, University of Colorado, Boulder
Austin Carter, PhD Student, Scripps Institute of Oceanography
Julia Marks Peterson, PhD Student, Oregon State University

5. Ice core perspectives on human impacts on the environment
Sophia Wensman, Postdoc, Desert Research Institute
Jacob Morgan, PhD Student, Scripps Institute of Oceanography
Kaitlin Keegan, Assistant Professor, University of Nevada, Reno
6. Wildfire records from ice cores
Sandra Brugger, Postdoc, Desert Research Institute
Liam Kirkpatrick, Undergraduate Student, Dartmouth College
Laurence Yeung, Associate Professor, Rice University

7. Ice core constraints on past sea level change
Drew Christ, Postdoc, University of Vermont
Justin Toller, PhD Student, University of Nevada, Reno
Julia Andreasen, PhD Student, University of Minnesota

8. Biology in ice cores: What can we learn from studying life within and under the ice?
Madelyne Willis, PhD Student, Montana State University
Heidi Smith, Assistant Research Professor, Montana State University
Nathan Chellman, Postdoc, Desert Research Institute

9. Ice-bed interactions and insights from ice cores
Caleb Walcott, PhD Student, University at Buffalo
Ben Hills, PhD Student, University of Washington
Emma Erwin, PhD Student, University of Maine

10. Firn: Applications in dating, climate reconstruction, and interpreting atmospheric records
Drake McCrimmon, PhD Student, University of Nevada, Reno
Alex Ilhe, PhD Student, University of Rochester
Summer Rupper, Professor, University of Utah

11. Future directions in ice core science
Matt Osman, PhD Student, University of Arizona
Alison Criscitiello, Director of Canadian Ice Core Lab, University of Alberta
Bess Koffman, Assistant Professor, Colby College
La Jolla Open Ice Core Meeting

• May 24-26
• ICWG meeting afternoon of Thursday May 26
• Integrate community/ICWG content throughout

• La Jolla is organized by Herc Dome, IDP/ICWG, COLDEX, and J IRP
  - Eric Steig – Herc Dome
  - Heidi Roop – COLDEX
  - Seth Campbell – J IRP
  - T.J. Fudge – ICWG
  - Murat Aydin – Herc Dome
  - Sarah Aarons – local organizer

• Goal – create a community workshop – not a project specific meeting – similar to the WAIS workshop