

Day 1, Tuesday, September 17

Ocean Sciences Building (OCN), #425 conference room

8:00 – 8:50 Continental breakfast (*included in registration fee*)

Welcome, Opening Remarks

8:50 – 9:00 TJ Fudge – Welcome and opening remarks

Session 1: Chronology, Delta-Age, Accumulation (Moderator: Murat Aydin)

9:00 – 9:20 Jenna Epifanio - A 52,640-Year Gas Chronology for the South Pole Ice Core: Gas age scale, delta-age, and smoothing of atmospheric records

9:20 – 9:40 Emma Kahle - Determination of temperature and ice thinning from an optimization of water isotope diffusion, Δ age, and layer thickness

9:40 – 10:00 TJ Fudge - SPICEcore Accumulation: Constraints from flowband modeling of vertical thinning

10:00 – 10:20 Session discussion

10:20 – 10:40 Break

Session 2: New and updated geochemical records (Moderator: Eric Steig)

10:40 – 11:00 Melinda Nicewonger - 52 ky record of ethane and acetylene measurements from the SPC14 core

11:00 – 11:20 Murat Aydin - Atmospheric Carbonyl Sulfide and Methyl Chloride During the Last 12,000 from SPICEcore

11:20 – 11:40 Dominic Winski - The SPICEcore Major Ion Record

11:40 – 1:00 Lunch (*included in registration fee*)

1:00 – 1:20 Aaron Chesler - Aerosol Iron Delivery and Geochemistry across Termination I: A New Record from the South Pole Ice Core

1:20 – 1:40 Joerg Schaefer - ^{10}Be measurements and modeling results from the South Pole ice core. (Here comes the sun!)

1:40 – 2:00 Session discussion

Poster Session – Johnson Hall, Room 011, University of Washington

2:30 – 5:00 Poster Viewing (Johnson Hall 011)

Group Dinner – Agua Verde Café, 1303 NE Boat St, Seattle, WA 98105

6:00 – 7:00 Cash bar at Agua Verde

7:00 – 9:00 Group dinner at Agua Verde (*included in registration fee; alcohol not included*)

Day 2, Wednesday, September 18

Ocean Sciences Building (OCN), #425 conference room

8:00 – 8:50 Continental breakfast (*included in registration fee*)

Project Update

8:50 – 9:10 Joe Souney – Project update

Session 3: Climate and Ice Dynamics (Moderator: TJ Fudge)

9:10 – 9:30 Qinghua Ding - Sensitivity of ^{10}Be at the South Pole to large scale climate variability over a broad range of time scales

9:30 – 9:50 Jeff Severinghaus- SPICEcore ^{18}O of O_2 reveals post-Heinrich event 5 persistent climate state

9:50 – 10:10 Eric Steig - South Pole ice core constraints on West Antarctic ice sheet dynamics

10:10 – 10:30 Break

10:30 – 10:50 Bradley Markle - An energetic view of millennial climate variability and a role for Greenhouse Gases in abrupt climate change

10:50 – 11:10 Christo Buizert - The new Kr-86 excess ice core proxy for synoptic activity: West Antarctic storminess possibly linked to ITCZ movement through the last deglaciation

11:10 – 11:45 Session Discussion

11:45 – 12:00 Eric Steig - A short update on Hercules Dome.

12:00 Lunch, followed by informal discussions.

Posters

1. Mary Albert - The Ice Drilling Program
2. Katherine Anderson - Left in the Dust? South Pole Ice Core Dust Record of Southern Westerly Winds During Dansgaard-Oeschger Events
3. Lindsey Davidge - Improved Precision of $\Delta 17\text{O}$ Measurements by Laser Spectroscopy
4. John Fegyveresi - Measurement and interpretation of bubble number-density evolution through the upper 800 meters of the SPC14 South Pole Ice Core (SPICEcore)
5. Nels Iverson - SPICEcore: the missing link between ice core tephra records
6. Carleigh Larrick - The SPICE Volcanic Record: Large Eruptions and Frequency during the Holocene
7. John Patterson - The 20th century atmospheric history of molecular hydrogen from South Pole firn air