



2012 PCC Summer Institute "Atmosphere-Ocean-Ice Shelf Interactions"

Sunday, September 16, 2012 to Tuesday, September 18, 2012

Friday Harbor Labs, Friday Harbor, San Juan Island

Sunday, September 16th

9:15 am depart University District.

11:55 am ferry from Anacortes to Friday Harbor.

1:00 pm arrive in Friday Harbor.

- 2:00-3:30PM Packet and Room Assignment Pickup in **Dining Hall**.
- 2:30-2:50PM Rowboat Orientation (meet at the **Dining Hall** if interested).
- 4:00PM Reception and Poster Session in **Dining Hall**. *All Other Sessions are in the Commons.*

6:00-6:30PM Dinner

Evening Session: *Big-Picture story of the Antarctic and Greenland Ice Sheets: what do the observations tell us? Chair: Eric Steig (UW Earth & Space Sciences)*

- 7:00-7:15 **Introduction** by Mark Warner (UW Ocean) and Eric Steig (UW ESS)
- 7:15-7:45 **Christina Hulbe (Portland State)** "Big or little? Using numerical models of ice flow to interpret observed change in West Antarctica"
- 7:45-8:15 **David Holland (NYU CAOS)** "Ice-ocean interaction in Greenland Fjords"
- 8:15-8:45 Open Discussion

Monday, September 17

7:45-8:15AM Breakfast served

Morning Session: *Oceanography and ice shelves, Chair: LuAnne Thompson (UW Oceanography)*

- 8:45-9:00 **Ken Sebens**, Friday Harbor Labs
- 9:00-9:45 **Laurence Padman (Earth & Space Research)** "Modeling the coupled ocean/sea-ice/ice-shelf system response to atmospheric and tide forcing"
- 10:00-10:45 **Ian Joughin (UW APL/Polar Science Center)** "Ice sheet response to ocean forcing"
- 10:45-11:15---Break (Group Picture)

- 11:15-11:30 **LuAnne Thompson (Director UW PCC)** Program on Climate Change in 2012/2013 and beyond.
- 11:45 - Rowboat orientation (at the pier)
- 12:15-12:45 PM Lunch Served

Afternoon free for discussions, hikes, kayaking or working.

6:00-6:30PM Dinner

Evening Session: *Atmospheric forcing, Chair: Qinghua Ding (UW Atmospheric Science)*

- 7:00-7:30 **Dargan Frierson (UW Atmospheric Sciences)** “The response of high latitude atmospheric circulation to climate forcings”
- 7:45-8:15 **Justin Wettstein (University of Bergen, Geophysical Institute)** “Zonally asymmetric circulations and links to the high latitudes”
- 8:15-8:45 Discussion

Tuesday, September 18th

7:45-8:15 Breakfast served; clear out rooms, turn in any keys.

Morning Session: *Role of the large-scale ocean circulation, Chair: Mark Warner (UW Oceanography)*

- 8:45 - 9:30 **Greg Johnson (UW Ocean & NOAA PMEL)** “Recent deep Southern Ocean changes in water masses and circulation; how might they be related to surface forcing?”
- 9:45 to 10:30 **Alex Orsi (Texas A&M, Oceanography)** “Long term changes in Southern Pacific stratification and circulation: fingerprints of Ross Sea responding to climate variability upstream?”
- 10:30 to 11:00 Break
- 11:00 to 12:00 Open Discussion

12:15PM: Pick up sack lunches at the dining hall; catch the 1:50PM ferry to Anacortes