

Agenda  
Ice Drilling Design and Operations Group – Technical Advisory Board  
April 20 & 21, 2011  
Fifth Quarter Studio, Second Floor, Union South  
1308 W. Dayton St  
University of Wisconsin - Madison  
Madison, WI 53706

Wednesday, April 20

- 0800 – Welcome (Bentley)
- 0805 – Logistic matters (Wendricks)
- 0810 -- Consideration and acceptance of TAB Terms of Reference
- 0820 – Summary of IDPO/IDDO structure and purpose (Albert)
- 0830 – Summary of IDPO-SAB meeting (Albert)

Discussion of existing systems

- 0850 -- Overview of systems and projects (Lebar)
- 0910 -- DISC drill (Dahnert, Johnson,)
  - Review of 2010-11 season
  - Plans for next season --
    - logging
    - more drilling in main hole
    - testing replicate coring system
- 0950 -- Agile drills
  - Review of past field seasons and plans for next (Bentley, Dahnert )
  - Status of drills
    - Blue ice drill (Kuhl)
    - Shallow-depth electromechanical and electrothermal drills (Kuhl)
    - Koci drill (Kuhl)
    - Hand augers (Goetz)
    - Modified hand augers (Sidewinder, Prairie Dog) (Lebar)
- 1030 -- Break

Discussion of systems under development

- 1045 -- Replicate coring drill (Gibson, Mortensen, Shturmakov, Hansen)
- 1125 -- Intermediate-depth drill (Johnson, Shturmakov, Hansen, Pyne, Wilhelms)
  - What should be the depth capability?
  - What and how much drilling fluid should be used
  - What are logistic limitations?
  - Other
- 1205 – Lunch (sandwiches brought in): continue discussions

### Discussion of non-IDDO drilling and systems

- 1300 -- Shot-hole drill (Dahnert, Jayred)
- 1315 -- Russian drilling at Vostok (Talalay)
- 1330 -- Chinese drilling projects: Dome A and Gamburtsev Mts (Talalay, Liu, Wang)
- 1345 -- Japanese drilling at Dome Fuji (and elsewhere?) (Motoyama)
- 1400 -- Update on ANDRILL (Pyne)
- 1415 -- Update on Roosevelt Island drilling (Pyne)
- 1430 -- Update on Lake Ellsworth access drilling (Makinson)
- 1445 -- Mars drill test in Dry Valleys (Zacny)
- 1500 -- Break

### Other discussions

- 1520 -- Drilling fluids for the future (Talalay, Hansen, Gerasimoff, Eustes, Motoyama)
- 1540 -- Access drilling: hot water, rapid access (Makinson, Gerasimoff, Wilhelms, Lebar, Eustes)
- 1620 -- Subglacial drilling: technique challenges (Talalay, Hansen?, Wilhelms?) Pardey)
- 1640 -- Review of Long Range Drilling Technology Plan

1700 – Adjourn

1800 – Group dinner (TBD): continue discussions

Thursday, April 21

0800 – Presentations by ICDS staff on problems they face and discussion thereof

0900 -- Updating the Long Range Drilling Technology Plan

1200 – Lunch (sandwiches brought in): continue discussions

1300 – Wrap up and action items

1400 -- Adjourn