

Agenda  
Ice Drilling Design and Operations – Technical Advisory Board  
April 24 & 25, 2012  
Union South  
1308 W. Dayton St  
University of Wisconsin - Madison  
Madison, WI 53706

N.B. Both meeting rooms are on the third floor of Union South

Tuesday, April 24, Industry Room

- 0800 – Welcome (Bentley)
- 0805 – Logistic matters (Wendricks) (*restrooms, lunches, dinner orders and transport, telephone call-in*)
- 0810 – Additions and corrections to the Agenda
- 0815 --TAB Terms of Reference: any changes needed? (*say something about chair?*)
- 0820 – Summary of IDPO/IDDO structure and purpose (Souney)
- 0830 – Update from the IDPO-Science Advisory Board (Bay)

Discussion of existing systems

- 0850 -- Overview of systems and projects (Lebar)
- 0900 -- DISC drill (Dahnert, Johnson,)
  - Review of 2011-12 season
  - Plans for next season – replicate coring
- 0940 -- Agile drills
  - Review of past field seasons and plans for next (Dahnert )
  - Status of drills
    - Blue Ice Drill (Kuhl)
    - Shallow-depth electromechanical and electrothermal drills (Coyne)
    - Hand augers (Goetz)
    - Modified hand augers (Sidewinder, Prairie Dog) (Goetz)
- 1030 -- Break

Discussion of systems under development (Shturmakov)

- 1045 -- Replicate Coring Drill (Shturmakov, Johnson, Gibson, Mortensen,)
  - Summary of current status
  - Consultations:
    - Bjorksten | bit 7 workshop;
    - IDPO experts review (Eustes, Cooper)
  - Plans for upgrades and modifications (Mortensen, Johnson, Gibson)
- 1125 -- Intermediate-depth drill (Johnson, Shturmakov)
  - Summary of current status
  - Extending depth capability; comparison with DISC Drill (*including logistic aspects*)
  - What and how much drilling fluid should be used (*one or two components?*)
  - Logistic burden vs. hole depth
  - Underbalanced hole: pros and cons (discussion) (*effect on drilling brittle ice?*)

1205 – Lunch (provided): continue discussions

Discussion of systems under development (Shturmakov; continued)

1300 – Rapid Access Ice Drill (RAID)  
Prospectus  
Schedule

Discussion of non-IDDO drilling and systems

1345 -- Russian drilling at Vostok (Talalay)  
1400 -- Chinese drilling projects: Dome A and Gamburtsev Mts (Talalay, Cao, Zheng)  
1415 -- Update on ANDRILL (Pyne)  
1430 -- Update on Roosevelt Island drilling (Albershardt, Pyne)  
1445 -- Update on Lake Ellsworth access drilling (Makinson)  
1500 – ARA hot water drilling at South Pole (Cherwinka)  
1515 – Update on European drilling activities (Hansen, Wilhelms)  
1545 -- Break

Other discussions (discussion leader's name first)

1600 – Borehole logging: what should be IDDO's role? (Bay; Shturmakov, Dahnert)  
1615 -- Drilling fluids for the future (Shturmakov; Talalay, Souney, Hansen, Eustes, Wilhelms)  
1630 – Hot-water drilling (Lebar; Makinson, Wilhelms, Pomraning)  
1645 -- Review of Long Range Drilling Technology Plan (Bentley)  
1700 – Adjourn

1800 – Group dinner (Brocach Irish Pub, 7 West Main St. ): continue discussions

Wednesday, April 25, Agriculture Room

0800 – Presentations by IDDO staff on problems they face and discussion thereof  
0830 – Updating the Long Range Drilling Technology Plan (Bentley)  
0900 -- Carry-overs from yesterday  
1000 – Next TAB meeting – combine with 7<sup>th</sup> International Workshop on Ice Drilling Technology?  
(Wilhelms, Bentley, Souney)  
1200 – Lunch (provided): continue discussions  
1300 – Wrap-up and action items  
1400 -- Adjourn