



IDPO Update

Ice Drilling Program Office

Science Advisory Board Meeting
March 2012



IDPO-IDDO Vision



To enable scientific discoveries about changes in environment and climate, using evidence from glaciers and ice sheets, to inform environmental policy.



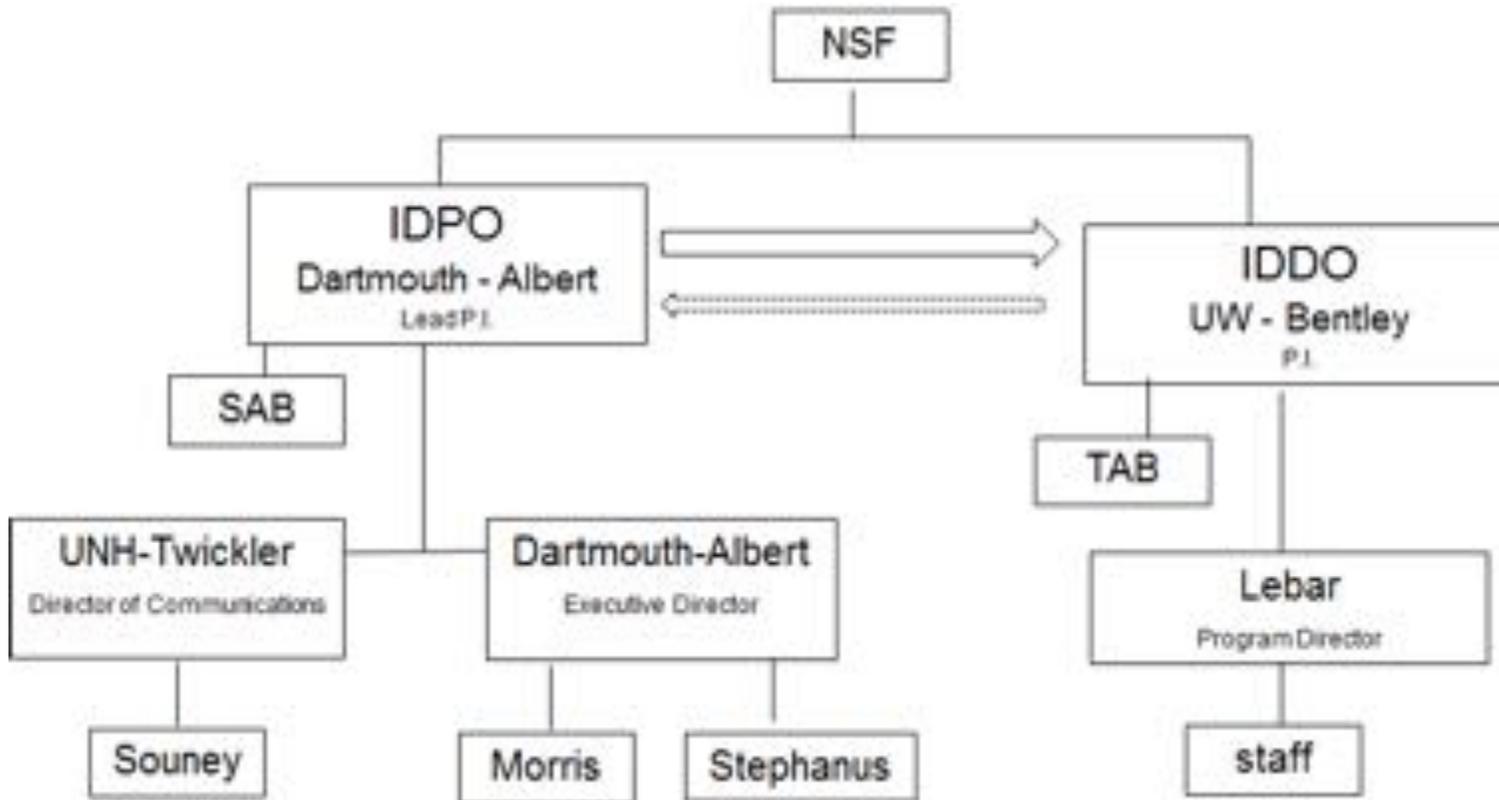
IDPO-IDDO Mission



To conduct integrated planning for the ice drilling science and technology communities and to provide drilling technology and operational support that will enable the community to advance the frontiers of science.



Organization: IDPO-IDDO





IDPO Planning Examples



- Community involvement in IDPO planning since SAB meeting last year:
 - - IDPO initiated Community Planning Workshop spring 2011
 - - IDPO led interdisciplinary AGU Town hall 2011
- Community input drives new technology planning & development:
 - Intermediate Depth Drill (IDD)
 - Rapid Access Ice Drill (RAID)
 - Intermediate Borehole Logging Winch
- Updates to be included in Long Range Plans





IDPO Planning & Oversight



Updates on planning for drills - examples:

- **Intermediate Depth Drill (IDD)** – IDPO negotiated with the Danish CIC, IDDO, and NSF to establish a basis for international collaboration. IDPO led development of Science Requirements with community scientists and IDDO. IDPO approved the IDDO yearly plan & monitors IDDO progress against the plan.
- **Rapid Access Ice Drill (RAID)** – IDPO convened the RAID workshop with interdisciplinary scientists, industry, and IDDO to form a common vision and led establishment of the Science Requirements for the drill. IDPO helped John Goodge write aspects of the proposal, and IDDO developed a Prospectus for the drill that is part of the proposal. Proposal to be submitted soon to NSF.
- **Replicate Coring** with DISC drill – IDPO oversees IDDO progress. IDPO has organized an engineering technical peer review of deviation creation and retrieving replicate core, to optimize potential for success next season.



IDDO Drilling Support Examples



- WAIS-D deep core: excellent core quality, timing on track, deepest U.S. core ever, 3331 meters
- Good results with agile drilling for smaller community projects
- Innovative new drilling technology





IDPO Communication Examples



- Engaging and useful web site *Icedrill.org*
- Quarterly newsletter *Ice Bits*
- *Icedrill.news* listserv announcements
- IDPO presentations / interactions at community meetings (WAIS-D, AGU, ICWG, State of the Arctic, etc)





U.S. ICE DRILLING PROGRAM EDUCATION & OUTREACH UPDATE

**Linda Morris
SAB March 21, 2012**





Revised Strategic Objectives

1

- Improve grades 7-12 teaching and learning

2

- Increase public understanding of science

3

- Build community of researchers doing E&O



Growth in Teacher Education

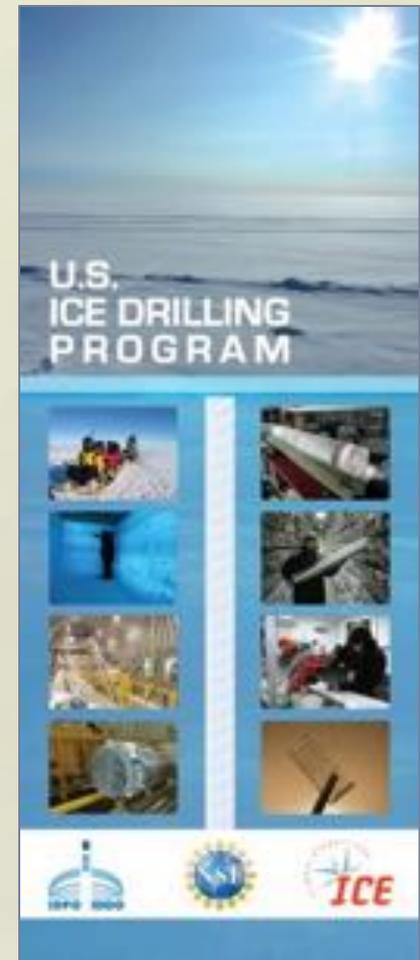
- Year 1: 1 Event
- Year 2: 3 Events
- This Year: 13, including Teacher Workshops, Short Courses, Symposia, Stage Show, Booth, Oral and Poster Sessions





Enhanced Resources for Public

- Research paper ‘translations’ for website
 - 6 currently reviewed
- Presentations for scientists
 - 2 (almost) ready!
- New core model and exhibit material

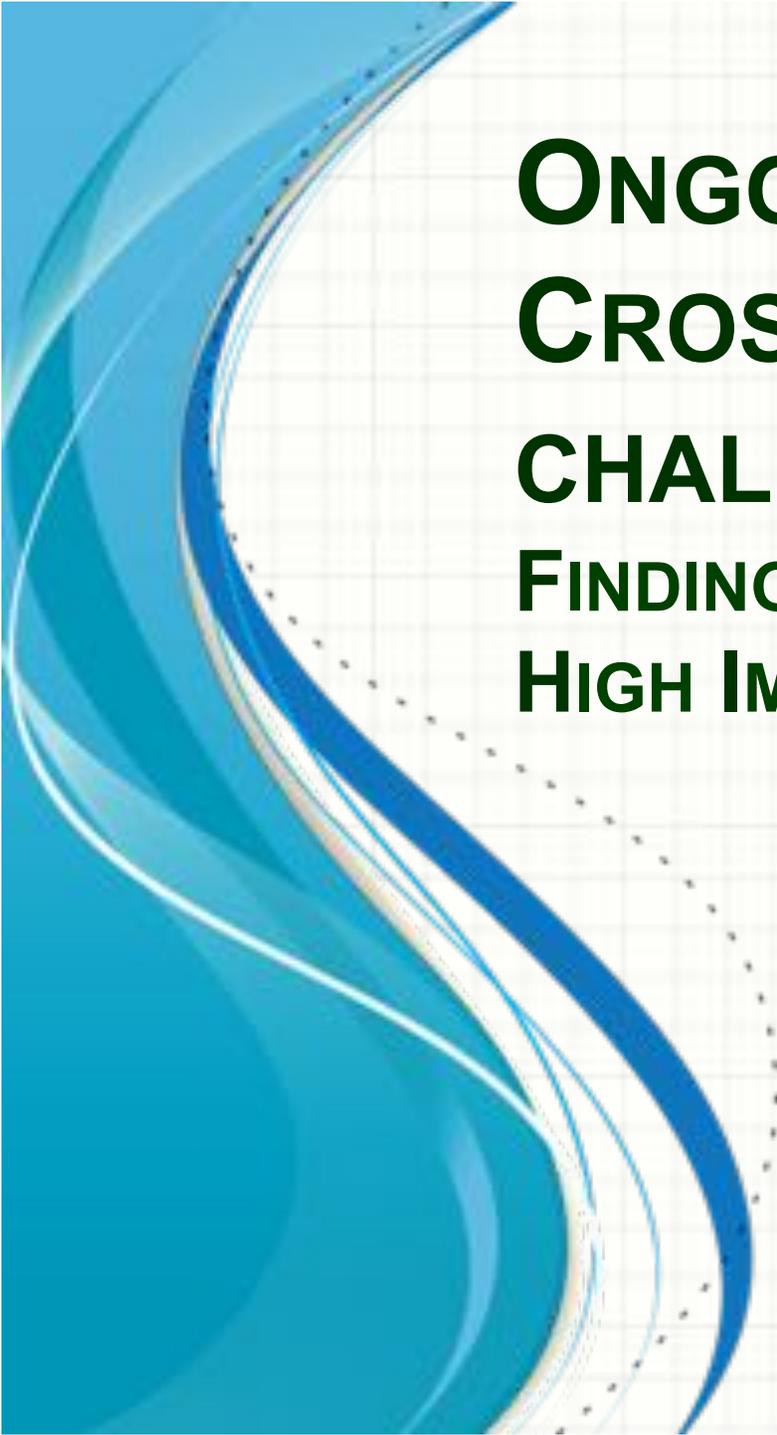




Expanding Community of E&O Participants

- New online curriculum connecting mentors and classrooms via videoconferencing
- Six new volunteers this week!





**ONGOING,
CROSSCUTTING
CHALLENGE:
FINDING FUNDING FOR ENDURING
HIGH IMPACT E&O PRODUCTS**

QUESTIONS?

