



U.S. GEOTRACES Arctic Planning Workshop
National Science Foundation
29 September - 1 October 2010

Workshop Program

29 Sept - Day 1 Stafford I, Room 1235

Continental breakfast at Comfort Inn Ballston
Walk to NSF

- 8:30 Welcome and logistics -- Bob Anderson
- 8:40 Overview of GEOTRACES -- Bob Anderson
- 9:00 Background and Goals for Arctic GEOTRACES -- Dave Kadko
- 9:25 Henrietta Edmonds -- NSF/OPP

Morning - The Arctic Ocean and GEOTRACES: key processes and sites, existing relevant US and international programs and activities (plenary session) **Convener: Peter Schlosser**

International programs:

- 9:35 Roger Francois (Canada)
- 10:00 Per Andersson (Sweden)

10:25 BREAK

10:40 Michiel Rutgers van der Loeff (Germany)

US programs

- 11:00 James Swift- Arctic repeat hydrography and GEOTRACES
- 11:20 Richard Coffin - Geochemical and geophysical investigation of deep sediment and permafrost hydrate deposits in the Beaufort Sea.
- 11:35 Brad Moran - Overview of BEST and SBI
- 11:55 Peter Schlosser - Overview of AON and other US programs-- ties to GEOTRACES

12:15 LUNCH

Afternoon: I. Tracers in the Arctic: key parameters, advocacy talks (plenary session) **Convener: Bill Smethie**

- 13:30 Mike Steele - the future of arctic sea ice and ocean temperature
- 13:55 Lou Codispoti - Nutrients and primary production in the Arctic

14:10 Advocacy talks (~5 min each)

Dennis Hansell:	Dissolved Organic Carbon (DOC)
Brad Moran:	Water column and sedimentary ^{231}Pa and ^{230}Th
Ken Buesseler:	Short lived ^{234}Th and ^{228}Th measurements
Gillian Stewart:	^{210}Pb and ^{210}Po
Mark Baskaran:	Role of Ice-rafted Sediments in the Biogeochemical Cycling of Key TEIs in Surface Waters Using a Suite of Short-lived Radionuclides
Jim Bishop:	Particulate TEIs
Nicolas Cassar:	O_2/Ar NCP measurements
Jingfeng Wu:	Seawater Pb isotope as a novel tracer for the Atlantic water flow path in the Arctic
Dave Kadko:	^7Be as a tracer of atmospheric inputs into the Arctic Surface Ocean
Bill Landing/Greg Cutter:	Atmospheric deposition of contaminant and bioactive elements, Asian pollution (10-15 m)

15:00 Break

15:20 **Afternoon: II. Plenary Discussion on topics, organization for breakout sessions**

Convener: David Kadko

(*Henrietta Edmonds for*) Kelly Falkner: R/V Sikuliaq: Alaska Region Research Vessel (10 m)

Breakout sessions: Discussion on topics, organization -- leaders from organizing committee

17:30 Adjourn / Dinner on own



30 Sept - Day 2 Stafford II, Room 515

Continental breakfast at Comfort Inn Ballston
Walk to NSF

8:30 Morning - Plenary: review and plan for the day / Convener: David Kadko

Breakout sessions: Discussion on topics, organization

10:30 Break

Breakout sessions: Discussion on topics, organization

12:15 LUNCH

13:30 **Afternoon I - Breakout sessions: meetings and plenary discussion**

15:00 Break

Afternoon II - Breakout sessions: meetings and plenary discussion

17:30 Adjourn / Dinner on own

1 Oct – Day 3
Stafford I, Room 1235

Continental breakfast at Comfort Inn Ballston
Walk to NSF

8:30 Morning - Plenary: review and plan for the day / Convener: David Kadko

Breakout sessions: meetings and report drafting

10:30 Break

Breakout sessions: meetings and report drafting

12:15 LUNCH

13:30 Afternoon - Synthesis and planning for future action (plenary discussion)

Breakout sessions: meetings and report drafting

17:30 - Meeting adjourn



Possible breakout sessions

- 1) Identify the most pressing, exciting GEOTRACES scientific issues; --review of Delmenhorst meeting-are ideas presented there suitable for US scientific objectives? (so we do not necessarily have to re-invent the wheel)
- 2) Identifying possible collaborations with other programs to address these questions, in light of difficult and constrained logistics
- 3) Identify national and international GEOTRACES efforts to address these goals.
- 4) Discussion of small scale to larger scale opportunities (single PI, small groups on foreign vessels, dedicated US Healy cruises).