

IPICS Workshop Agenda

March 2004

Algonkian Regional Park, Sterling, VA, USA

Saturday (March 13, 2004)

Arrival of participants

Sunday (March 14)

9:30-10:30 Brunch

10:30 Bus to Washington D.C

17:00 Leave Washington D.C and return to Algonkian

18:30 Welcome dinner and lecture

Challenges for the International Ice Core Community

Richard Alley

Monday (March 15)

7:30-8:15 Breakfast

Session 1: Building a Common Framework

Session chair: Ken Taylor

The desired outcome of this session is to develop a common understanding of the goals of this meeting and the long-range goals of the international community of ice core researchers.

8:30 Welcome and purpose of meeting

Ken Taylor

8:40 Remarks from the U.S. National Science Foundation

Karl Erb and Julie Palais

8:55 Remarks from the European Polar Board

Paul Edgerton

9:10 What are the most significant science issues for ice core research?

Presentation and discussion: Thomas Stocker

Session 2: Opportunities for International Ice Coring Programs

Session Chairs: Ken Taylor and Eric Wolff

The desired outcome for this session is to improve the science plans for projects that have been suggested, to consider other projects that may be proposed as a result of the discussions, and to determine how international collaboration could facilitate the suggested projects.

9:45 A project to recover the longest possible ice core paleoclimate record

Jean Jouzel

10:00 Discussion of a project to recover the longest possible ice core paleoclimate record

10:20 Break

10:40 A project to recover Eemian ice from Northwest Greenland

Dorthe Dahl-Jensen

10:55 Discussion of a project to recover Eemian ice from Northwest Greenland.

11:15 An inland Antarctica array of ice cores

Paul Mayewski

11:30 Discussion of an Antarctic inland array

11:50 A coastal Antarctica array of ice cores

Jim White

12:05 Discussion of an Antarctic coastal array

12:25 Lunch

14:00 An Arctic array of ice cores

Joe McConnell

14:15 Discussion of an Arctic array

14:35 An ice coring program for non polar regions

Margit Schwikowski

14:50 Discussion of an ice coring program for non-polar regions

14:10 Break

14:40 Discussion of collaboration:

Discussion led by Ed Brook

What do we mean by collaboration?

Why collaborate?

Examples of collaboration that worked and why did they work?

Examples of collaboration that did not work and why did they not work?

How can we collaborate on the projects we just discussed?

15:20 End of meetings for the day

Session 3: Drilling Technology and Other Topics

The desired outcome of this session is to exchange ideas on drilling technology by physically examining drill components.

17:30 Posters and appetizers. Posters on drilling technology are strongly encouraged. Posters on other topics are also welcome.

Attendees are encouraged to bring interesting parts of their drills to the meeting to

show and discuss with each other.

8:30 Dinner

Tuesday (March 16)

7:30-8:15 Breakfast

Session 4: Improving Ice Core Drilling and Recovery

Session Chairs: Joan Fitzpatrick and Jakob Schwander

The desired outcome of this session is to identify ways to improve core quality and the efficiency of drilling operations.

8:30 Introduction and summary of a survey on the technical challenges

associated with ice core drilling and recovery.

Joan Fitzpatrick

8:45 Replicate coring:

15 minute talk: Bill Mason; 10-minute discussion

Suggestions for a system to collect replicate cores from depths of special interest.

9:10 Options for drilling fluids:

15 minute talk: Michael Gerasimoff; 10 minute discussion: Joan Fitzpatrick

What fluids have been used? What fluids can be used in future? What do we need to do

to evaluate a new fluid?

9:35 Break

10:00 Problems and solutions related to drilling brittle ice:

Jakob Schwander

(15 minute talk, 20 minute discussion)

What is brittle ice? Can we measure brittleness? Why does it occur? How have different

groups dealt with brittle ice? What is the best way to drill and handle brittle ice?

10:40 Problems and solutions related to drilling warm ice:

Laurent Augustin

(15 minute talk, 20 minute discussion)

What is warm ice? What problems has it caused? How have different groups dealt with

warm ice? What is the best way to drill and handle warm ice?

11:20 Lunch

Session 5: Moving Forward

Session Chairs: Eric Wolff and Ken Taylor

Meeting participants are expected to have determined how their nation's interests can be best represented in the discussions in this session. The desired

outcome of this session is to identify ways international collaboration can facilitate the suggested projects and technology improvements.

12:40 Break into working groups and discuss the listed topics.

The working groups will be:

Deep ice cores:

Facilitated by: Eric Wolf

How can international collaboration facilitate these projects?

How much interest is there in these projects?

How do these projects fit in with the International Polar Year?

What steps need to be taken to move these projects forward?

Spatial arrays of shallow and intermediate ice cores:

Facilitated by: Ken Taylor

How can international collaboration facilitate these projects?

How much interest is there in these projects?

How do these projects fit in with the International Polar Year?

What steps need to be taken to move these projects forward?

Ice drilling technology:

Facilitated by: Joan Fitzpatrick

What are the advantages and disadvantages of international collaboration on drilling efforts?

What steps need to be taken to develop better collaboration between drilling groups?

14:00 Reports from working groups

14:45 Break

15:00 Discussions led by Ken Taylor and Eric Wolff

How can international collaboration be facilitated to maximize the science we produce?

How does the International Polar Year factor into our plans?

What are specific actions should we take to move these projects forward?

What suggestions or recommendations do we want to make?

Should we plan a follow up meeting?

Who will take the lead, and who will assist, writing specific sections of the workshop report?

16:45 End of meeting

Arrangements will be made for transportation to the Airport. Do not plan on catching flights that leave prior to 21:00. Most people will spend the night at the meeting venue.

18:30 Dinner

Wednesday (March 17)

7-8 Light Breakfast in cabin 7

Arrangements will be made for transportation to the airport for flights leaving at any time.