

**ACE Paleoclimate and Ice Sheet Modeling Workshop**  
Hotel Northampton, Northampton, Massachusetts  
May 30<sup>th</sup>-June 2, 2002

Preliminary Workshop Agenda

**Day 1, Thursday, May 30<sup>th</sup>**

Arrival, Hotel check-in, Opening Reception in the Wiggins Tavern 6:00-8:00 pm

**Day 2 Friday, May 31<sup>st</sup>**

8:00 am Breakfast in the Hampshire Room

8:00-9:00 Registration in the Hotel Lobby

9:00-9:10 Rob DeConto, Introduction

9:10-9:29 Scott Borg, Opening Remarks

**Data: The Geologic Record of Cenozoic Climate and Ice Sheets**

9:20-9:50 \*Peter Barrett, Keynote: Antarctic Glacial History: Conflict and Resolution

9:50-10:20 \*James Zachos, Keynote, Cenozoic Glaciations as Inferred from Deep-Sea Oxygen Isotope Records

10:20-10:40 Peter Barker: Geological Constraints on Antarctic Ice Sheet Models

10:40-11:00 Rob Dunbar: ACE, SOIMAGES, ANDRILL, SHALDRILL, IODP - How can they get us what we need to test our ideas about Antarctic Glacial Evolution

11:00-11:25 Coffee Break

11:30-11:50 Fabio Florindo: Future Antarctic Margin Drilling- The ANDRILL Initiative and McMurdo Sound Portfolio

11:50-12:10 Alan Cooper: Cenozoic Paleoenvironments of the Prydz Bay Region from Drilling by ODP Legs 119 and 188

12:10-12:30 Tim Naish, Constraining the deep-ocean archive of Cenozoic climate with shallow-marine sediment data from the Antarctic continental margin

12:30 - 1:30 Lunch

1:30-1:50 Reed Scherer, Diatoms in Antarctic Glacigenic Sediments as Sedimentary Tracers of Past and Present Ice Sheet Processes

1:50-2:10 John Smellie, Ice Sheet Reconstructions and Ice Dynamics in Northern Antarctic Peninsula Over the Past 10 myr: How Investigations of Onshore Volcanic Sequences Can Contribute

### **Modeling Antarctic Climates and Ice Sheets**

2:10-2:40 \*Martin Siegert, Keynote: Utilizing the geological record to reconstruct former ice sheet configurations in Antarctica

2:40-3:10 Robert Oglesby: Issues in Modeling Antarctic Climate Evolution

3:10-3:30 Shawn Marshall: General Ice Sheet Modeling?

3:30-4:00 Coffee Break

4:00-4:20 Tony Payne, present-day Antarctic ice sheet modeling: Numerical modelling of the flow parameters of the present-day Antarctic Ice Sheet

4:20-4:40 Doug MacAyeal: A Causative Mechanism for Ice-Shelf Break-up

4:40-5:00 Andrew MacKintosh: Late Quaternary evolution of the East Antarctic Ice Sheet in the Australian Sector, 60-90 E: Empirical Evidence and Modelling Studies

5:00-7:00 Posters/discussion/bar service (beer and wine)

### **Day 3 Saturday, June 1<sup>st</sup>**

8:00-9:00 Breakfast

9:00-9:20 Yannick Donnadieu, Paleoclimate/Ice Sheet Modeling(?)

9:20-9:40 Rob DeConto: Cenozoic Climate/Ice Sheet Modeling

9:40-10:00 Dave Pollard: Cenozoic Sediment Model Component

10:00-10:20 Martin Roy: Evolution of the Laurentide Ice Sheet Dynamics Through Changes in Subglacial Geology: An Analogue for the Antarctic Ice Sheet?

10:20-10:40 Ross Powell: Integrating Glacial and Glacimarine Sedimentary Processes with Glaciological Models for Quantitative Modeling of Glacial Sequence Stratigraphy

10:40-11:00 Ocean Modeling Talk

End of talks

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11:00-11:15 Coffee Break

11:15-11:30 Discussion of breakout agendas and participant work assignments

11:30-12:30 Two separate breakout groups: data and modeling

12:30-1:30 Lunch

1:30-3:00 Two separate breakout groups, continued (~60 min), Reconvene together, reports from two groups (~30 min)

3:00-3:15 Coffee Break

3:15-5:00 Group discussion on model-data synthesis

5:00-5:30 Synthesis, list of recommendations/strategies, final wrap-up

5:30-7:30: Continued discussion if required, bar service (beer and wine).

#### **Day 4, Sunday June 2<sup>nd</sup>**

Check-out and departure