

# Arctic Drilling Workshop

Alfred Wegener Institute  
Bremerhaven, Germany  
3-5 November 2008

# Convenors

## Organizing Committee Chairs

**Bernard Coakley**, University of Alaska Fairbanks

**Ruediger Stein**, Alfred Wegener Institute

## Organizing Committee

**Jan Backman**, Stockholm University

**Henk Brinkhuis**, Utrecht University

**Nick Kuszniir**, University of Liverpool

**Naja Mikkelsen**, Geological Survey of Denmark and Greenland

**Kathryn Moran**, University of Rhode Island

**Jörn Thiede**, Alfred Wegener Institute

# Funding

AOSB	\$6,000
NAD	\$9,000
USSSP	\$39,000
ESF	\$30,000
Industry	\$28,000
<b>Total \$112,000</b>	

# Participation

- 146 Total Applications
- 95 Attendees (72 Supported)
- 11 Industry
- 63 New to the Ocean Drilling Project
- one third “junior” scientists

# Participation by Country

3 Canada

3 Denmark

2 France

14 Germany

1 Italy

2 Japan

1 South Korea

2 Netherlands

11 Norway

6 Russia

5 Sweden

12 UK

37 US

37 US

12 Other (Canada, Japan, Korea, Russia)

50 Europe

# Program - 1st Day

## **Results (1): History, Stratigraphy, and Paleoenvironment**

### **Plenary Session Chair: R. Stein**

09:00-09:30 History and mystery of the Arctic Ocean J.Thiede

#### *Coring*

09:30-09:45 Current status of Quaternary research in the Amerasian Basin L. Polyak

09:45-10:00 Quaternary history of the Eurasian Arctic Ocean from sediment cores R. Spielhagen

10:00-10:30 Drilling in high northern latitudes from DSDP/ODP to IODP/ACEX K. Moran

#### *Knowledge from arctic shelf drilling*

10:30-10:45 Shallow coring and drilling activity on the Eurasian continental margin P. Rekant

10:45-11:00 Fate of methane released on the Arctic shelf from thawing permafrost and decomposing gas hydrate (co-authors: S. Dallimore and T. Collett) C. Paull

## **Results (2): Tectonics**

### **Plenary Session Chair: B. Coakley**

11:30-11:50 Tectonic history of the circum-Arctic shelves: Observations and assumptions (co-author: R. Scott) J. Omma

11:50-12:10 Outstanding questions about the origin and evolution of the Amerasian Basin E. Miller

## **Database (Site Survey)**

### **Plenary Session Chair: B. Coakley**

12:10-12:30 Bathymetry M. Jakobsson

12:30-13:10 Seismic Reflections Y. Kristoffersen and W. Jokat

## **Organizational and Technical Needs**

### **Plenary Session Chair: N. Kuznir**

14:10-14:40 How to navigate the waters of IODP J. Schuffert

14:40-14:55 AURORA BOREALIS - European research icebreaker with drilling capability N. Biebow

14:55-15:10 Scientific drilling in remote polar environments: Preparing for successful outcomes F. Rack

## **Collaboration Between Academia and Industry**

### **Plenary Session Chair: K. Moran**

15:10-15:25 EUREKA/EUROGIA development G. Marquette

15:25-15:40 Arctic Ocean drilling in the context of resource assessment H. Brekke

15:40-15:55 Understanding crustal inheritance: the key to Arctic hydrocarbon prospectivity (co-authors: L. Mackay and S. Matthews) S. Paulson

15:55-16:25 **Coffee Break**

## **Unsolicited Ideas, Information, and Speculations**

### **Plenary Session Chair: H. Brinkhuis**

16:25-18:00 Participant Presentations

# 2nd Day

## Thematic Working Groups

Paleoceanography  
Tectonics  
Petrology/Geochemistry  
Hydrates

## Regional Working Groups

Lomonosov Ridge  
Gakkel Ridge  
Alpha Mendeleev Ridge  
Chukchi Plateau  
Jessup Rise/Yermak Plateau  
Eurasian Shelf Seas  
MacKenzie Delta

# Results

- 5-6 New Pre-proposals to IODP on April 1st
- Influence renewal of Ocean Drilling program (2013)
- Contributions to CHART online workshop
- Arctic Ocean Participation in the INVEST meeting
  - Bremen Germany September 2009

# Publications

- EOS Meeting Report (any day now)
- Scientific Drilling Article (publication date September 2009)

# Results

- Site Survey Cruises
- Drilling (5-10 years from now)