



Holocene History of the Northern Treeline

June 26-27

**Geochemistry Seminar Room
Lamont-Doherty Earth Observatory
Palisades, New York 10964 USA**

List of Participants

Wally Broecker (LDEO)

Ed Cook (LDEO)

Rosanne D'Arrigo (LDEO)

George Denton (University of Maine)

Dave Frank (Swiss Federal Research Institute WSL)

Andreas Rigling (Swiss Federal Research Institute WSL)

Rashit Hantemirov (Institute of Plant and Animal Ecology)

Stepan Shiyatov (Institute of Plant and Animal Ecology)

Greg Wiles (The College of Wooster)

Konstantin Kremenetski (UCLA)

Glen MacDonald (UCLA)

Tom Guilderson (Lawrence Livermore National Lab)



Program

Day 1: June 26

- 09:00 Welcome, introduction, and goals of mini-conference topic -- **Wally Broecker** and **Ed Cook**
- 09:20 Overview of Holocene millennial-scale climate fluctuations -- **George Denton**
- 09:40 Discussion
- 09:50 Environmental effects on tree growth at the northern treeline -- **Rosanne D'Arrigo**
- 10:10 Discussion
- 10:20 Coffee Break
- 10:40 Regional studies #1: Eurasian treeline -- **Glen MacDonald** and **Konstantin Kremenetski**
- 11:00 Discussion
- 11:10 Regional studies #2: Yamal -- **Rashit Hantemirov**
- 11:30 Discussion
- 11:40 Regional studies #3: Polar Urals -- **Stepan Shiyatov**
- 12:00 Discussion
- 12:10 Lunch
- 13:30 Regional studies #4: Eurasia -- **Andreas Rigling**
- 13:50 Discussion
- 14:00 Regional studies #5: Eurasia -- **Dave Frank**
- 14:20 Discussion
- 14:30 Regional studies #6: Alaska -- **Greg Wiles**
- 14:50 Discussion
- 15:00 Coffee Break
- 15:20 Stable isotope analysis of relic treeline wood – **Wally Broecker**
- 15:40 Discussion
- 15:50 Radiocarbon dating of relic treeline wood – **Tom Guilderson**
- 16:10 Discussion
- 16:20 Open Discussion on what do we know, what we can learn from further analyses of existing data and wood collections, where we need more data and samples taken, what new kinds of measurements would be useful, etc.
- 17:00 Ice Breaker with beer, wine, etc.
- 19:00 Conference dinner at Pasta Amore in Piermont

Day 2: June 27

- 09:00 Refresh on what we know, what we don't know, what we would like to know, and how we might go about knowing it -- **Ed Cook**
- 09:20 What resources are available to help make it all happen -- **Wally** and **Ed** will lead this discussion
- 10:30 Coffee Break
- 11:00 Open Discussion
- 12:00 End of mini-conference and lunch

An open invitation is given to all participants to tour Lamont and visit the Lamont Tree-Ring Lab after the end of the mini-conference. For those staying over Tuesday night, there is an opportunity to go to O'Donoghue's Pub in Nyack for beer and 10 cent chicken wings, a Tuesday night tradition.

