



Australasian Quaternary Association Inc.

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AQUA



2006 AUSTRALASIAN-INTIMATE Meeting

University of Auckland, New Zealand

10th and 11th February, 2006

Conveners – Jamie Shulmeister (University of Canterbury) and Chris Turney (University of Wollongong)

Co-organised through the **Geological Society of New Zealand (GSNZ)** and the **Australasian Quaternary Association (AQUA)**

OBJECTIVE:

- To compare Australian and New Zealand onshore and offshore reference records for OIS 2 and 2/1 transition
- To produce a provisional Australasian regional events stratigraphy **or** to determine that a single stratigraphy is not possible and to define sub-regions with provisional stratigraphies for each.

BACKGROUND:

The AUSTRALASIAN-INTIMATE Group has now run for nearly 2 years. As national groups in Australia and New Zealand we have made significant progress in working towards a common theme of unravelling climate over the last 30,000 to 8000 years. In 2005 both the Australian and New Zealand groups successfully produced posters dealing with key proxy records spanning 30 ka to 8 ka. Both groups are now in the process of producing an international journal paper summarising progress (for a special issue of JQS). Both national groups have moved on to outlining climate event stratigraphies for these time periods. Now is the time to bring the national efforts together and to start developing a regional climate event stratigraphy.

The 2006 AUSTRALASIAN-INTIMATE workshop aims to continue on with the themes and objectives of the December 2004 Meeting. Now that various records have been assembled and placed on the same time-scale –we need to bring the records together to compare them so that we can;

1. Decide how do we achieve a single Australasian climate event stratigraphy? We may cover the national territory of only two countries but we are covering a continental scale area. If a single event stratigraphy is not feasible, we need to define the sub-regions for which event stratigraphies are feasible.
2. Engage in robust discussions on the key reference sections.
3. Discuss and agree on protocols for the delineation of the events. Peter Almond has initiated this discussion in New Zealand and his discussion document has been circulated to NZ members. It is available at www.paleoclimate.org.nz The group intends to follow the established protocols of the North Atlantic INTIMATE group.

4. Discuss issues that affect high resolution correlations between key records (e.g. tephra ages).
5. Produce a regional summary paper from this meeting styled on the North Atlantic INTIMATE format. We need to plan the production of a suitable outcome from the project for the Cairns INQUA meeting.
6. Plan for the extension of Australasian INTIMATE up to (and if appropriate beyond) INQUA in Cairns. In particular, there is pressure from INQUA for the group to spread its wings to other Southern Hemisphere locales. Some initial contacts have been made with South American workers and the group should discuss whether and how such an extension of the work should take place.
7. AOB

SESSION FORMATS:

The purpose of the workshop is to produce an integrated event stratigraphy/ies for the Australasian region. All participants are encouraged to identify theme groups where they would like to participate for small group discussions. The likely themes include (ice cores, ocean records, parna and loess, biological proxies, speleothems, glacial records, enhancing chronology]. Participants may submit an Abstract (by December 15th, 2005) in any one or more of the Australasian-INTIMATE sessions identified below. **All standard research presentations will be by poster only.** Theme presentations are to stimulate/promote broader discussion of the key issues (timing and nature of key events). Session presenters will be notified by January 10th. For those of you not selected to make a session presentation – submission of a poster presentation is encouraged and participation in the discussions is the key part of the meeting. Abstracts of all presentations will be included in the workshop abstract volume.

REGISTRATION:

There is a \$30 registration cost to cover lunches and morning/afternoon teas. An Australasian-INTIMATE workshop abstract report (much like the 2004-INTIMATE Proceedings) will be provided to all participants. Abstracts must be received no later than 4 pm on December 15th, 2005. We prefer that abstracts are e-mailed (to: james.shulmeister@canterbury.ac.nz) but please note that registration forms must be posted. Upon receipt of the completed registration form an acknowledgement will be sent to the registrant by mail or e-mail. The registrant will also be notified if he/she has been selected to lead a theme discussion.

PROVISIONAL PROGRAMME:

Friday 10th, February 2006

09.00-09.30 am **AUSTRALASIAN-INTIMATE Welcome and overview**

SESSION I

INTEGRATION OF AUSTRALASIAN RESULTS – individual themes

09.30 -12.30 pm Trans-Tasman thematic working groups (ice cores, marine records etc)

compare and contrast records and views.

12.30 – 1.30 pm Lunch

- 1.30 – 4.00 pm Thematic working groups report to workshop on their group discussions.
Presentations should be about 15 minutes maximum followed by open discussion.
- 4.00 – 6.00 pm Poster Session

Saturday 11th, February 2006

SESSION II

INTEGRATION OF AUSTRALASIAN RESULTS – producing an event stratigraphy

- 9.00- 10.00 am Description of draft Australian event stratigraphy/ies
10.00- 11.00 am Description of draft New Zealand event stratigraphy

11.00-11.30 Morning Tea

- 11.30- 1.00 pm General discussion on reconciling NZ and Australian event stratigraphies

1.00-2.00 pm LUNCH

- 2.00-2.30 pm State of affairs summarised

SESSION III

PLANNING FOR THE FUTURE – Cairns (and beyond?)

- 2.30-3.00 pm Discussion on AUST INTIMATE programme at Cairns INQUA (i.e. separate session to other

3.00 -3.30 pm Afternoon Tea

- 3.30-4.00 pm Discussion on extending work to other SH locales and/or linkages with other SH groups.

- 4.00-5.00pm Discussion on publications and future directions for Australasian INTIMATE

MEETING CONCLUDES

For those continuing to ANZGG in Northland, registration starts on Sunday afternoon at 4pm with a BBQ for that conference at 6pm. Give yourself plenty of time to drive up there!

ACCOMMODATION:

No formal accommodation has been arranged by the organisers. A full range of accommodation from backpackers to 5 star hotels is available in downtown Auckland close to the venue. We will post a list of accommodations close to the venue shortly.

FOOD ARRANGEMENTS:

- Morning and afternoon teas will be provided
- Light lunches will also be provided.

ABSTRACTS

One page abstracts of research relevant to INTIMATE are encouraged for all participants and are required for all theme presentations and posters. Abstracts will be published (A4 black and white reproduction) in an Australasian-INTIMATE Proceedings. Please ensure that your abstract is reviewed internally or by co-authors prior to submission. We prefer that abstracts are sent by e-mail as an attachment (preferably formatted Microsoft Word; plain text if not) to james.shulmeister@canterbury.ac.nz with Australasian-INTIMATE in the subject line. A hardcopy must be posted with the registration form.

All abstracts must be with the conference organisers by December 15th 2005. Please indicate on the registration form if you would like your talk to be included in one of the proposed sessions, or feel free to suggest a session of your own in your e-mail. Poster presentations are encouraged.

Formatting for abstracts should be as follows:

**TEPHROCHRONOLOGY OF LAST TERMINATION SEQUENCES IN EUROPE: A
PROTOCOL FOR IMPROVED ANALYTICAL PRECISION AND ROBUST
CORRELATION PROCEDURES (A JOINT SCOTAV-INTIMATE PROPOSAL)**

Chris S. M. Turney¹, J. John Lowe², Siwan M. Davies², Valerie Hall¹, David J. Lowe³,
Stefan Wastegård⁴, Wim Hoek⁵, Brent Alloway⁶, SCOTAV and INTIMATE members

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² Centre for Quaternary Research, Department of Geography, Royal Holloway, University of
London, Egham, Surrey, TW20 0EX, U.K.

³ Department of Earth Sciences, University of Waikato, Private Bag 3105, Hamilton, New
Zealand

⁴ Department of Physical Geography and Quaternary Geology, Stockholm University, S-106
91 Stockholm, Sweden

⁵ Utrecht University, Department of Physical Geography, Heidelberglaan 2, 3508 TC Utrecht,
The Netherlands

⁶ Institute of Geological & Nuclear Sciences, Wairakei Research Centre, State Highway 1,
Private Bag 2000, Taupo, New Zealand
c.turney@qub.ac.uk

The precise sequence of events during the Last Termination (18-9 ka ¹⁴C BP), and the extent to which major environmental changes were synchronous, are difficult to establish using the radiocarbon method because of serious distortions of the radiocarbon timescale, as well as the influence of a range of site-specific errors that can affect the materials dated. Attention has therefore turned to other methods that can provide independent tests of the chronology and correlation of events during ...

Note that:

- Entire abstracts (text and figures) must fit on one A4 portrait page with at least 30 mm margins all around.
- Times New Roman 12 pt font, single line spacing throughout. Title bold capitals, Authors lower-case; presenting author underlined. All other text plain.
- Titles, names and addresses centred; rest of abstract justified flush left and right.
- Add presenting author's e-mail address on a new line after the last author. Blank line after title, before the text body and between paragraphs
- No page number, paragraph indents or footnotes
- White-background diagrams are fine, but use patterns rather than grey-shades
- We reserve the right to edit or reject abstracts not conforming to the above



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Auckland, New Zealand
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Conveners – Jamie Shulmeister and Chris Turney

REGISTRATION DETAILS - Please send the following information to:

James Shulmeister, Department of Geological Sciences, University of Canterbury,
Private Bag 4800, Christchurch, New Zealand (james.shulmeister@canterbury.ac.nz)

Name: of person(s) attending AUST-INTIMATE workshop: _____

Contact: _____

Postal Address _____

City _____

Telephone: _____ Facsimile: _____

Email: _____

	Y	N
I will be attending both days	<input type="checkbox"/>	<input type="checkbox"/>

	10th	11th
I will be attending just one day - tick which day	<input type="checkbox"/>	<input type="checkbox"/>

I am intending to submit an Abstract in one (or more) of the following areas on Day-1 (Programme TBA):	Y	N
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- | | | |
|--|--------------------------|--------------------------|
| • Biological proxy Records | <input type="checkbox"/> | <input type="checkbox"/> |
| • Glacial records | <input type="checkbox"/> | <input type="checkbox"/> |
| • Parna/Loess Records | <input type="checkbox"/> | <input type="checkbox"/> |
| • Lake/Maar Records | <input type="checkbox"/> | <input type="checkbox"/> |
| • Speleothem Records | <input type="checkbox"/> | <input type="checkbox"/> |
| • Ice core records | <input type="checkbox"/> | <input type="checkbox"/> |
| • Enhancing Chronology (i.e. ¹⁴ C, OSL, surface exposure dating, tephra, oxygen isotopes) | <input type="checkbox"/> | <input type="checkbox"/> |
| • Other theme (please identify) | <input type="checkbox"/> | <input type="checkbox"/> |

A formatted Abstract is attached (due Dec 15, 2005)	<input type="checkbox"/>	<input type="checkbox"/>
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