



INQUA PROJECT ANNUAL REPORT FOR FUNDING GIVEN IN 2005 AND BUDGET FOR 2006

(to be sent along with the budget form below to the President of the Commission AND the Vice President of INQUA who oversees your project.)

Deadline January 27th 2006

Project number INQUA 04 _ _

Project number INQUA 05 /08

Project Title: Comparing the Quaternary evolution north and south of the Alps

Primary Commission: Stratigraphy and Chronology

Subcommission: SEQS-INQUA Subcommission on European Quaternary Stratigraphy

Leader (name, mailing address, e-mail, fax)

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INQUA funds awarded for 2005: 3500 \$

Breakdown of use of the INQUA funding during 2005: 3500 \$

Summary of accomplishments during report year

The SEQS meeting at Bern was used to review existing and new data in the form of oral and poster presentations (see extra files for program & abstract volume) as well as during excursions (see extra file including the excursion guide). Direct outcomes of this meeting are:

1. **Initiation of core group** that will summarize the available data for reconstructing the Quaternary history of the Alpine region as a whole. It is seen as extremely important to in-cooperate persons from all Alpine countries since a lot of information is available as non-English literature only. A first but important step will be reviewing the huge amount of available literature and data.

The eight members of this core group are: Valerie Andrieu-Ponel & Frederic Guiter (Aix-en-Provence, France), Frank Preusser (Bern, Switzerland), Markus Fiebig & Jürgen Reitner (Vienna, Austria), Milos Bavec (Ljubilana, Slovenia), Ceasre Ravazzi (Milano, Italy), and Mauro Coltorti (Sienna, Itlay). Although Germany is not included in this list we think that MF and FP (both of German origin) can cover this part of the Alpine region easily. It was seen as a necessary requirement to keep the inner core group small since large groups tend to get ineffective and unproductive.

This inner core will act as the driving part of the correlation program but invite participation of other scientists in a later stage. Six members of this group met on December, 16th 2005 at Vienna to discuss the general scheme of future work. The group will meet again at the Milano conference.

2. **Linkage of national research projects.** Research projects by different participants will be connected as a direct result of connections established at Bern. FP and CR will start a joint program of OSL dating key sites from the Alpine Foreland of Italy. This research is mainly funded by the Swiss National Science Foundation (SNF) (PhD grant to S. Lowick). This project will be linked to already running dating programs in the Swiss Alps (PhDs I. Schnidelwig, A. Graf, S. Strasky, SNF projects) and the Northern Foreland of the Alps (PhD N. Klasen, grant by German DFG).

Furthermore, we integrated the ESF Marie-Curie Fellowship given to Sven Lukas (Bern) into the existing correlation project. Further proposals will be submitted to funding agencies in the different countries later this year.

Publications directly resulting from project (attach up to one extra page if necessary)

Proceedings of the SEQS2005 conferences are edited by Frank Preusser (Bern), Markus Fiebig (Vienna) and Joel Spencer (Innsbruck) and will be published as a special (double?) issue of *Quaternary International* in 2007. Until now (late January) 15 papers have been submitted and another 9 are expected during the next few days. The majority of papers is directly linked to the project (focus on Alps) but there are also papers on other topics from all over Europe.

Article on the "Late Pleistocene history of the Alpine region". Manuscript in preparation, scheduled for submission to *Quaternary Science Reviews* in mid- to late 2006.

Financial breakdown**Income**

Conference & excursion fees	6850.70 CHF
Funding by INQUA	4506.00 CHF
Funding by Universität Bern	4300.00 CHF
Funding by Swiss Academy of Science	3900.00 CHF
Funding by Beer-Brawandt Foundation	6000.00 CHF
Total income	26'002.15 CHF

Expenditure

Grants (see list below)	4096.65 CHF
Excursions	5244.10 CHF
Food, coffee, reception, conferences dinner	8430.90 CHF
Varia (abstract volume etc.)	1864.45 CHF
Proceedings (expected printing cost for double volume)	6000.00 CHF
Total expenditure	27'636.00 CHF

Persons that received grants: G. Danukalova (Russia, Vice president SEQS, fully funded); P. Urdea (Romania, invited talk, fully funded); N. Gerasimenko (Ukraine), L. Kalnina (Latvia), A. Markova, A. Simakova (Russia) (conference & excursion fees, accommodation costs and travel expenses within Switzerland); D. Veres (PhD student Romania/Sweden, conference fee and accommodation costs).

Manuscript submitted to proceedings of SEQS 2005 (Titles given in *Italics* are preliminary, paper pending)

1. Abbuehl et al., A zero-time experiment on an erratic boulder: evaluating the problem of pre-exposure in surface exposure dating.
2. Akcar et al., Paleoglacial records from Kavron Valley, NE Turkey: Field and cosmogenic exposure dating evidence.
3. Coope, Coleoptera from the 2003 excavations of the mammoth skeleton at Niederweningen, Switzerland.
4. Danukalova et al., New Quaternary Key sites in the southern Fore Urals .
5. Drescher et al., Palaeobotanical investigations at the mammoth site of Niederweningen (Kanton Zürich), Switzerland.
6. Ellwanger et al., *Oberschwaben*.
7. Ellwanger et al., *Scientific deep drilling project in the Upper Rhine Graben, near Heidelberg, Germany* (Short communication).
8. Furrer et al., The Mammoth Site of Niederweningen, Switzerland.
9. Ehlers & Gibbard, The extent and chronology of Cenozoic glaciations.
10. Gerasimenko, ???
11. Graf et al., Glaciations of the Jura Mountains.
12. Hajdas et al., Radiocarbon Chronology of the Mammoth Site at Niederweningen, near Zurich, Switzerland—Results from dating bones, tooth, wood and peat.
13. Häuselmann et al., A first attempt to date "Deckenschotter" with cosmogenic nuclides.
14. Ivy-Ochs , Cosmogenic dating (in general?).
15. Jörin et al., *Holocene glacier variations*.
16. Kalnina et al., *Pleistocene stratigraphy in Latvia*.
17. Kemna & Westerhof, Criticism of the chronostratigraphical subdivision of the Pliocene and Early Pleistocene of northwestern Europe.
18. Klasen et al., Luminescence dating of proglacial sediments from the Eastern Alps.
19. Preusser, Luminescence dating of the Niederweningen mammoth site, Switzerland.
20. Reitner, *Late glacial in Eastern Alps*.
21. Reuther et al., The glacial chronology of the Pietrele Valley, Retezat Mountains, Southern Carpathians, constrained by ¹⁰Be exposure ages and pedological investigations.
22. Schoeneich, Late Glacial in French Alps.
23. Tütken, Stable isotope compositions of mammoth teeth from Niederweningen, Switzerland: Implications for the Late Pleistocene climate and environment.
24. Urdea, Some new data concerning the Quaternary glaciation in the Romanian Carpathians.