



4th Annual Conference
International Geological Correlation Program Project No. 464
Continental Shelves During the Last Glacial Cycle: Knowledge and Applications

Aug. 28-31st University of Rome "La Sapienza" Sept. 1st-3rd Ponza Island
igcp464conference@uniroma1.it

1. CONFERENCE INTRODUCTION

IGCP project 464 (<http://tetide.geo.uniroma1.it/igcp464.html>) is now in its 4th (penultimate) year of activity. A Special Symposium will be held at the 31st International Geological Congress (Florence, 21st-28th August) and the IGCP464 Annual Conference will follow immediately afterwards in Rome until Sept. 3rd. After a 2 days of scientific presentation, the conference will move to Ponza, where scientific discussion will continue, plus one-day excursions onboard of an oceanographic vessel (to collect and discuss data) as well as one-day excursion on small boat to observe coastal and shallow-water features. Due to organizational constrain, the number of fieldtrip participants will be limited to 50 people.

Reduced registration fee and budget accommodation (for the season and the venue) are available for the Conference both in Rome and Ponza. Moreover, to reduce the cost of researchers attending both Florence Congress and Rome/Ponza Conference, a very convenient accommodation has been reserved in Florence for IGCP464 participants. Limited funding are available to support participation from developing countries researchers. An early registration is absolutely advised, to reserve the hotels in the tourist season and to book for the fieldtrip excursion.

2. SCIENTIFIC TOPICS

The aim of IGCP is the definition of the palaeoenvironmental evolution of the continental shelves, leading to their present morphology, stratigraphy and sedimentology. The geological approach to the environment and to its global changes is in fact based on a complete understanding of the long-term cyclicality of natural systems. On the continental margins the leading factor is undoubtedly the very rapid changes in sea level that brought it from ca. -125m during the Last Glacial Maximum (ca. 20ka BP) to its present position in little more than 10,000 years at an average rate of 1m/century. The project will therefore be focused especially on the Last Glacial Maximum and to the following sea-level rise. In fact the LGM is a key event in Pleistocene/Holocene evolution, as it represents the main and latest extreme in sea-level and climatic trends at a global scale. The conditions at the LGM on continental shelves and their effects on coastal plains and continental slopes will thus be the "starting point" of the most recent and continuing environmental cycle.

All researchers interested in the recent (i.e. post 100.000 years b.p.) evolution of the continental shelves, the processes that led to their present architecture and applications of this knowledge are welcome to participate.

3. CONFERENCE THEMES

In the conference, academic exchange and discussion will be focused on the following scientific aspects:

- (1) Depth of the eustatic minimum: position of sea level at the LGM, similarities and differences among tidal/non tidal, high/low wave energy, tropical/temperate/periglacial shelves.
- (2) Palaeogeography: formation of continental land-bridges, narrowing or closure of straits and seaways, changes to littoral dynamics, sea/land ratio, etc.
- (3) Palaeoclimate: indications on palae-rainfall/paleohydrology (i.e. why river courses did not cut incised valleys down to the LGM sea-level depth?), palae-wave climate (i.e. why lowstand deposits are more redistributed along the coast than transgressive and highstand deposits), palaeoconditions on high- and low-latitude shelves (i.e. water temperature and coral reefs, palaeomonsoon, de-glaciation patterns), palaeo-morphology (i.e. shelf morphology evolution during sea level fall, lowstand and rise)
- (4) Stratigraphy: possible definition of a sea-level fall/lowstand limit, application of sequence-stratigraphic concepts to the last eustatic cycle, is the actualism applicable to continental shelf study?

- (5) Heritage on human culture: witnesses of environmental changes and shelf narrowing on human pre-history (disappearance of flat coastal areas suitable for cultural/population transigrations, constant flooding situation, abrupt sea-level rise in enclosed basins such as the Black Sea)
- (6) Applications: Carbon Cycle, control on global climate, coastline changes controlling sediment re-distribution, neotectonics, hydrogeological indications, long-term littoral budget, shelf mineral resources, engineering geology, coastal management.

During this fourth Conference of the IGCP 464, besides the presentation of scientific contributions other aspects will be held in the business meetings as the final set-up of the book(s) we are preparing, the outcome of the project in its final year, the possibility of a follow-up project, annual and regional (Argentina and Russia) conferences for 2005, etc.

4. LANGUAGE The language used at the conference is English.

5. ABSTRACT SUBMISSION

An abstract of minimum one, maximum two pages should be submitted by 1st of July, 2004 via e-mail (igcp464conference@uniroma1.it) as MSWord or RTF format. If you have no email access, please contact Prof. Chiocci by fax at +39 6 4458 5080,

Abstract should have the following setup:

- (1) Layout: A4 paper (210mm x 297mm), left and right margins 3.0 cm, top and bottom margins 3.0 cm, line spacing 1.5.
- (2) Text Font: Arial 12
- (3) Title: Centred capital, bold font size 12
- (4) Authors: Left aligned, not capital font size 10
- (5) Affiliations: Left aligned not capital font size 9
- (6) Text: justified to the left; new paragraph indent 1.0
- (7) Bibliography cited in the abstract: (Yim, 2000, Yim and Tovey, 2001, Yim et al., 2002)
- (8) Bibliography list: Author Surname, Author Initials, (year).....title.... ,journal... , ...vol.... , ...pages...
- (9) Figures must be sent separately as TIFF, GIF, or JPG formats. File size should not exceed 500kb.
- (10) Figures captions must be sent as separate files
- (11) Tables and table captions must be inserted in the text

If you already submitted a poster to IGCP 464 session at the International Geological Congress in Florence, you are recommended to present it as oral presentation, re-submitting the same abstract to the Annual Conference in Rome.

6. CONFERENCE FORMAT

Presentation in oral form is recommended to stimulate discussion that is the main quality of IGCP464 meetings. However all contributors are requested to present their papers also in the poster format, that will be exposed for the whole meeting. The poster should be prepared as Corel Draw, MSWord, Freehand, Illustrator, formats saving them as HTML. The HTML files should be recorded on diskette (if possible) or in CD ROM and given to the organizers at the conference. They will appear on the project website and on the cd-rom we will prepare at the end of the project.

For oral presentation 15-20 minutes, plus 5 minutes of discussion are available. The conference room will be equipped with a notebook with datashow, a 35-mm slide projector and an overhead projector. Please inform francesco chiocci if you have any additional requirements.

Poster size should be 90 cm (wide) x 120 cm (high)

7. FIELDTRIP

After the two-days scientific discussion in Rome, the conference will move to Ponza Island, a spectacular volcanic island just at the shelf edge offshore southern Latium coast (see www.ponza.com for images and English language tourist information). There the researchers will spend one day on board of an oceanographic vessel, to acquire data remote data (sides scan sonar, multibeam, seismics) and collect sea floor sampling. One other day will be spent on a small boat around the islands, making observation on the land geology as well on shallow water features (bring your snorkeling and swimming equipment). Note that the fieldtrips on the ship and on the small boat are subject to meteorological conditions (weather is usually good in summertime).

The island has a typical Mediterranean climate and style, is bordered by spectacular cliffs cut on ialoclastic products emplaced by submarine eruptions and nice pocket beaches are present at the foothill. On the narrow shelf, mainly made up of depositional wedges formed during last sea level lowstand, the

sedimentation is a typical example of extra-tropical carbonate sedimentation, with complex interaction between physical and biological processes. Finally, as Ponza (and the two neighboring islands of Palmarola and Zannone, almost inhabited) is located at the tip of one of the most steep continental slope of the whole Tyrrhenian Sea, spectacular instability phenomena are present on the seafloor (on the continental slope only 5% of the seafloor is not affected by instability). Submarine slides affect the seafloor also on the shelf. All these aspect will be illustrated and discussed (possibly by data collection) during the fieldtrip.

IMPORTANT: Because of the limitation the on number of researchers we may board on the oceanographic vessel, the number of participants to the fieldtrip will be limited to 50. Preference will be given to IGCP464 participants and to early registrants. There is no limitation for the conference in Rome.

8. REGISTRATION FEE AND PAYMENT

The registration fee for the conference is 100€ (75€ reduced fee for students and developing countries researchers). This includes conference dinner, abstract book and coffee breaks.

Fieldtrip fee is 200€ (150€ reduced fee) and includes transportation to/from the island, lunches, one dinner, guidebook, excursion with oceanographic vessel and small boats.

CONFERENCE (Rome 28-31 Aug.)		
	Regular	Reduced
Conference fee (icebreaking, conference dinner, abstract book, coffee break)	100€	75€
FIELDTRIP (Ponza 1-3 Sept.)		
Field trip fee (transportation to/from Ponza Island, fieldguide, excursions, lunches, one dinner)	200€	150€

We may provide accommodation (of different level) at convenient cost in Rome and in Ponza. Moreover a convenient accommodation is available for IGCP464 participants in Florence during the International Geological Congress. All the accommodation are available if reserved within May 10st.

ACCOMMODATION			
ROME			
		Single	Double (you have to find your roommate)
Aug. 28, 29, 30 Three nights	(bed & breakfast or budget hotel)	200€	250€ (two people)
	*** hotel	300€	400€(two people)
PONZA			
	(bed & breakfast in 2/3 beds room)	100€ each person	
Aug. 31, Sept. 1, 2 Three nights	***hotel	300€ (single)	400€ (two people) (you find your roommate)
FLORENCE (Int. Geol. Congress, just before IGCP464 conference)			
Aug. 20-27 Seven nights	single	double (you find your roommate)	3 or more
Accommodation + breakfast	273 or 308€	476€ (two people)	224€ each person
Accommodation + breakfast + dinners	343 or 378	616€ (two people)	294€ each person

IGCP464 will partially support attendance of some researcher from developing countries or graduate students who present a paper at the conference. Persons wishing to receive such support should approach Francesco L. Chiocci or Allan Chivas with information about the nature of the contribution they wish to make at the meeting. An early submission of the intended abstract will assist in reaching a decision concerning financial assistance.

Payment should be made by credit card or overseas check in Euros, payable to Dipartimento Scienze della Terra, Università "La Sapienza", Roma by May.10, 2004.

After this deadline, the registration fees will be 25€ higher.

9. DEADLINES

- May 10th 2004: Early registration and hotel reservation NOTE that there is a limited number of fieldtrip participants. Early registrants will be preferred
- July 1st, 2004: Submission of abstract
- August 1st Second and Final Circular with Conference Program

10. PRELIMINARY SCHEDULE**28 August (Saturday)**

Afternoon: arrival in Rome
Evening: Registration and icebreaking.

29 August (Sunday)

Morning: Registration, Opening session, Oral and Poster presentations
Afternoon: Oral and Poster presentations, Initial Business Meeting
Evening: Conference dinner

30 August (Monday)

Morning: Oral presentations
Afternoon: Oral and Poster presentations

31 August (Tuesday)

Morning: Leave to Ponza
Afternoon: Oral Presentations

1 September (Wednesday)

Fieldtrip with vessel/small boats
Onboard Scientific discussion and presentation

2 September (Thursday)

Fieldtrip with vessel/small boats
Onboard Scientific discussion and presentation
Fieldtrip dinner

3 September (Friday)

Morning: Oral presentations and final business meeting
Afternoon: Leave for Rome and Departure

11. GENERAL INFORMATION

- (1) Please contact the Italian Consulates in your own country concerning requirements for a visa. If a letter of invitation is needed please contact .Francesco L. Chiocci
- (2) During the conference period the weather in Italy is sunny. The temperature in Rome can be from warm to very hot, up to 35°C. For the field trip, raincoats and sports shoes are recommended, as well as swimsuit and snorkeling equipment.
- (3) The electrical supply in Italy is 220V, 50Hz AC.

12. CONFERENCE SPONSORS (PROVISIONAL LIST)

UNESCO/IUGS
 University of Rome "La Sapienza"
 CoNISMA (Consorzio Nazionale Interuniversitario per le Scienze del Mare)
 Regione Lazio

Scientific Sponsorship

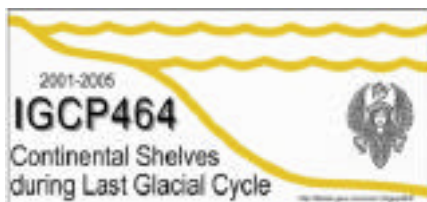
CHANGES Project (Carbon Hydrology and Global Environment)
 INQUA (Int. Union of Quaternary Associations) – Coastal and Marine Processes Commission
 Società Geologica Italiana
 GeoSed (Italian Ass. for Sedimentary Geology)
 APAT – Dipartimento Difesa del Suolo

13. CONTACTS

Conference organisation
 Dipartimento Scienze della Terra, Università di Roma "La Sapienza"
 P. le Aldo Moro 5, 00185 Roma, Italy;
 Email: igcp464conference@uniroma1.it

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Rome-Ponza Aug.28^h – Sept.3^d

REGISTRATION FORM

Please complete this form and return together with your abstract
by fax at +39+(0)6+44 585 080by email to igcp464conference@uniroma1.it

Name: _____

Address : _____

Phone _____ (Work) _____ (Mobile) _____ (Home) _____ (Fax)

E-mail _____

Birthdate _____ Birthplace _____

I am accompanied by my spouse Yes No Title Professor Dr Mr Mrs Miss

Provisional title of your presentation(s) -

oral poster (possibly both, see Conference format)

