II POSTGRADUATE FIELD COURSE ON THE GEOMORPHOLOGY AND QUATERNARY GEOLOGY OF TIERRA DEL FUEGO

Tierra del Fuego, Argentina, March 6-22, 2004

FIRST CIRCULAR

Background

The First Postgraduate Field Course on the Geomorphology and Quaternary Geology of Tierra del Fuego took place between March 15th and 30th, 2003. The Postgraduate Field Course developed successfully, with the participation of 18 graduates in Geology, Geography, Biology and Archaeology, coming from 11 different countries (Argentina, Chile, Brazil, Spain, Ireland, Italy, Germany, Sweden, Norway, Canada and the United States). Dr Norm Catto, Memorial University of Newfoundland, Saint John, Canada, and Editor-in-Chief of the journal "Quaternary International", participated also as a Visiting Professor, and offered two talks on topics of his research fields. All field and lab activities and explanations were given simultaneously in Spanish and English, making of the use of these two languages a way of communication and understanding among the participants, instead of a limiting barrier.
The activities conducted, which widely covered our expectations and those of the participants, as well as the requirements of numerous colleagues who were unable to take part of the I Course 2003, have motivated us to offer this II Postgraduate Field Course 2004, which we expect would be of high interest for our collegues in Argentina and elsewhere.

Sponsoring Institutions

CADIC-CONICET (Center at Ushuaia of the National Research Council of Argentina)
Universidad Nacional de La Plata
Universidad Nacional de la Patagonia at Ushuaia
Bariloche Foundation
Nehuén Foundation (Neuquén, Patagonia)
Sociedad Argentina de Antropología (SAA)
International Association of Geomorphologists

Director

Dr Jorge Rabassa (CADIC-CONICET & Univ. Nac. de la Patagonia-Ushuaia)

Faculty

Dr Andrea Coronato (CADIC-CONICET & Univ. Nac. de la Patagonia-Ushuaia)
Dr Gustavo Bujalesky (CADIC-CONICET & Univ. Nac. de la Patagonia- Ushuaia)
Lic. Claudio Roig (Univ. Nac. de la Patagonia-Ushuaia)
Dr Mónica Salemme (CADIC-CONICET & Univ. Nac. de la Patagonia- Ushuaia)
Dr Daniel Acevedo (CADIC-CONICET)
Forestry Eng. Leonardo Collado (Natural Resources Undersecretariat, Government of the Province of Tierra del Fuego)

Geographical setting

Different sites in the Island of Tierra del Fuego, Argentina.

Dates

March 6-22, 2004.

Objectives and Methodology

Through field studies, to vinculate landforms and sedimentary accumulations with their genetic conditions and spatial distribution, and the Quaternary chronology, palaeoenvironments and palaeoclimates of Southernmost South America.

To analize the importance of the different landforms and their associations from the geoenvironmental and applied point of view.

Field studies to be developed are related to the observation, description, interpretation, correlation and preliminary mapping, using topographic sheets, satellite imagery and aerial photographs, of the landforms existing in different environments of the Isla Grande de Tierra del Fuego.

These field studies will allow the gathering of the necessary information to be used afterwards in the lab work, to compile the definitive mapping and the presentation of the required exercises, for their revision and approval.

Topics to be developed

Landforms pertaining to glacial, periglacial, coastal, fluvial, and aeolian landscapes, as well as those formed by mass-movement processes will be studied. Peat-bogs and sampling techniques will also be analyzed. The Quaternary Chronology of Tierra del Fuego and Patagonia, and its relationship with the continental and global records will be discussed.

Participants

University Graduates, preferably from recent years, in Geology, Geography, Archaeology, Biology, Ecology, Agricultural Sciences, Forestry and Tourism, and related disciplines.

Number of participants

The minimum number of participants has been established in 10, and the maximum number in 20, in both cases due to logistic reasons.

In case that the number of inscriptions exceeds the established maximum number of participants, the Director and the Faculty members will determine the order of the definitive list of participants. In case of last-minute withdrawals, those places will be offered to those located immediately below in such listing.

Languages

The Field Course will be offered in Spanish. If no-Spanish-speaking participants have been accepted, the Course will be offered simultaneously in Spanish and English.

Total length of the Field Course

Approximately 200 effective, field plus lab working hours.

Evaluation

The Field Course will only be approved: (a) after personal participation in all field and laboratory activities (with the only exception of health reasons), (b) approval of all established exercises and (c) approval of a final test on the topics studied in the course.

Programme

March 6, 2004. Reception of the participants at the Rio Grande City Airport. Introductory lectures. Distribution of bibliography and materials. Pre-Course Test, based on bibliographical references which will be available to definitive participants.
March 7. Río Grande-Northern Zone of the Island of Tierra del Fuego-Río Grande. Reconnaissance of glacial landforms. Section description in glacial sediments. Description and detail profiles in the coastal zone.
March 8. Río Grande-Punta Sinaí-San Sebastián-Río Grande.
Reconnaissance and mapping of glacial and fluvioglacial sediments. Aeolian sediments. Coastal landforms and sediments. Archaeological sites.
March 9. Río Grande-Estancia La Sara-Río Chico-Río Grande.
Marine terraces of the Last and previous Interglacial epochs. Littoral ridges. Holocene marine landscape. Ancient glaciations. Archaeological sites.
March 10. Río Grande-Lago Yehuin-Lago Fagnano-Tolhuin.
Fluvioglacial Terraces. Moraines and glacial sediments. Ice-desintegration landscape. Kettles. Active peat-bogs.
March 11. Lago Fagnano.
Glacigenic deposits: till, glaciolacustrine, glaciodeltaic and glaciofluvial sediments. Diatomites and fossil peaty sediments.
March 12. Tolhuin-Lago Escondido-Ushuaia.
Fluvioglacial and ice-contact landscapes. Environmental Geology. Neotectonics: the Magellan Fault at Lake Fagnano. Peat-bogs. Glacial erosive landscape.
March 13. Ushuaia.
Laboratory work at CADIC, Ushuaia. Analysis of topographic sheets, satellite imagery and aerial photographs. Preparation of the exercises corresponding to the previous fieldwork days.
March 14. Ushuaia.
Laboratory work at CADIC, Ushuaia. Analysis of topographic sheets, satellite imagery and aerial photographs. Preparation of the exercises corresponding to the previous fieldwork days.
March 15. Ushuaia-Tierra Mayor-Beagle Channel-Puerto Harberton-Isla Gable-Punta Moat-Ushuaia. Glacial erosional landscape. Drumlins and Kames. Terminal moraines. Marine terraces of the Beagle Channel. Mass-movement processes. Archaeological sites.
March 16. Ushuaia-Playa Larga- Tierra Mayor- Oyarzum peat bog- Ushuaia.
Holocene raised beaches along the Beagle Channel; its relation with anthropogenic middens. Reconnaissance of glacial erosional landforms. Cirques and alpine valleys. Environmental Geomorphology. Mass-movement processes. Peat-bogs under economic exploitation. Sampling for Palynological studies. Sub-fossil wood. Sampling for dendrochronological studies.
March 17. Ushuaia.
Laboratory work at CADIC, Ushuaia. Analysis of topographic sheets, satellite imagery and aerial photographs. Preparation of the exercises corresponding to the previous fieldwork days.
March 18. Ushuaia-Aeropuerto de Ushuaia-Parque Nacional Tierra del Fuego-Ushuaia.
Reconnaissance of glacial landforms. Delta-kames. Marine deposits of the Lago Roca Palaeo-fjord. Archaeological sites.
March 19. Ushuaia.
Laboratory work at CADIC, Ushuaia. Analysis of topographic sheets, satellite imagery and aerial photographs. Preparation of the exercises corresponding to the previous fieldwork days.
March 20. Ushuaia. At CADIC. Final test. Formal closure of the Course.
March 21. Ushuaia-L. Martial Glacial Cirque-Ushuaia.
Post-course excursion. Geomorphology and sedimentary deposits in glacial cirques. Cirque moraines. Periglacial features. Ushuaia moraines. Chronology of the Beagle Channel glaciations.
March 22. Ushuaia. Departure of the participants.
Special Nature and Climbing trips may be organized for the participants upon request.

Requirements

A valid passport and visa, if so required. Please consult the nearest Argentine Embassy.
Be a University graduate in the cited disciplines before July 31st., 2003.
Basic knowledge in Geology and Geomorphology will be required, according to selected bibliographic references which will be communicated to the definitive participants.
Bring working equipment according to a list that will be informed later.
Health and accident personal insurance, valid in the Argentine Republic, for the period between March 6th and March 22th, 2004, will be inforced.
Have basic computer knowledge.
Be proficient in Spanish and/or English.

Costs

The total cost of the Field Course has been established in U.S. Dollars Six Hundred (U$S 600) per participant, including registration fees, materials, surface transporation in Tierra del Fuego, and full-board (lodgement and three daily meals, alcoholic beverages not included). Aerial transportation to and from Tierra del Fuego is not included. Foreign participants are recommended to arrange their aerial transportation Buenos Aires-Rio Grande and Ushuaia-Buenos Aires as part of their international air tickets.
Payment conditions will be informed to the definitive participants. Please do not send money orders or checks now. Cancellation and reimbursement conditions will be informed later.

Registration and Correspondence

Until October 31st., 2003, through electronic mail, providing the information, included in the **application form.** A detailed curriculum vitae, including education, labor and academic experience, publications, grants and scholarships, etc., shall be sent via e-mail as well.
Registrations received after such date will be considered only if the maximum number of participants has not been completed.
In case of being accepted, the participant will be requested to send as a minimum the 50% of the corresponding payments before November 30th., 2003, to keep the assigned place.

All correspondence to:

Dr Jorge Rabassa
Laboratorio de Geología del Cuaternario
CADIC,
C.C. 92,
9410 Ushuaia, Tierra del Fuego, Argentina
jrabassa@infovia.com.ar
labcuat@satlink.com
Phones: +54-2901-422310/422314/433320
Fax: +54-2901-432948/430644

FICHA DE INSCRIPCIÓN
APPLICATION FORM

Apellido y nombre (Last name and name):	
D.N.I. Nº (Passport Nº):	
Domicilio (Address):	
Ciudad (City):	**C.P. (Zip code):**
País (Country):	
Correo electrónico (E-mail):	
Teléfono (Phone) /Fax:	

Título (Degree):	**Expedido por (Institution):**
Postgrado (Postgraduate studies):	
Completo (finished):	**En curso (under progress)**
Expedido por (Institution) :	
Ocupación (Position-job):	
Institución (Institutional affiliation):	

Seguro de vida (Póliza Nº): **Life insurance (Nº):**

Forma de pago (Payment) * :
Efectivo (cash)
Cheque (check)
Giro bancario o postal (Bank transfer or Western Union transfer)

*: El 50% del costo de inscripción deberá abonarse antes del 30 de Noviembre, 2003. Los detalles de las formas de transferencia de fondos serán informados a los interesados.
*: 50% of the registration fees will be paid before November, 30th., 2003. Money tranfer details will be offered to the candidates.

Laboratorio de Geología del Cuaternario- CADIC-CONICET, Ushuaia, Argentina.
labcuat@satlink.com.ar ; jrabassa@infovia.com.ar ; www.tierradelfuego.org.ar/cadic

ANTECEDENTES DE LOS POSTULANTES
CANDIDATE´S BACKGROUND

Por favor, conteste a las siguientes preguntas.
Please, answer the following questions.

1- ¿Ha cursado las asignaturas “Geomorfología” “Geología del Cuaternario” y/o “Geografía Física” en sus estudios de grado?
Have you taken “Geomorphology” “Quaternary Geology” and/or “Physical Geography” courses in your degree studies?

2- ¿Está desarrollando o involucrado en proyectos de investigación vinculados a la temática del curso?
Are you involved in research projects related to the topics of this course?

3- ¿Sus motivaciones por tomar este curso?:
Main interests in taking this course?: