Project no. 018340

Project acronym: EDIT

Project title: Toward the European Distributed Institute of Taxonomy

Instrument: Network of Excellence
Thematic Priority: Sub-Priority 1.1.6.3: "Global Change and Ecosystems"

C8.3.1.2 Report on the first Summer School

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Dissemination Level		
PU	Public	x
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

1. Introduction

The EDIT Summer School, as described in the Joint Programme of Activities:

> 8.3 "Pilot schemes for Integration": Integration of European taxonomic capacity
>
> 8.3.1 The Summer School programme
>
> The development of a summer school programme will add a special value to the DEST. It will also serve as a flagship initiative to increase the student's interest in taxonomy and raise the awareness of the general public.
>
> Summer school programme will combine theoretical topics and fieldwork. In view of this, the focus of the taxon-oriented pilot course would be general topics on taxonomy and field related items. [The summer school activities will be linked with WP7 ATBI+M.]

The EDIT Summer School, as described on the website (http://www.atbi.eu/summerschool):

> Modern Taxonomy and Field Work
>
> The purpose of the Summer School is to train students in "Best Practice" of field sampling and various aspects of taxonomic research to be applied in biodiversity and conservation biology research. The Summer School will focus on disseminating practical taxonomic experience with theory lectures to give an in-depth understanding of the current state of taxonomic research and its broad applicability in other scientific disciplines and non-scientific initiatives.
>
> The EDIT Summer School 2008 is open to students that have recently finished their MSc. level or are in an early stage of their PhD research in a biological discipline. The Summer School will be held in the late summer of 2008 (31/08-14/09), coupled with the ongoing "All Taxa Biodiversity Inventory and Monitoring (ATBI+M)" in the French/Italian Alpine nature reserves of Mercantour and Alpi Marittime. ATBI+M activities are part of a global research effort to document spatio-temporal dynamics in biodiversity of conservation priority areas.
>
> The Summer School of Taxonomy provides a unique chance for students to meet with professional taxonomists and experience firsthand the challenges and rewards of field work in the inspirational settings of the Marittime Alps.

1.1 Date and Location

The First EDIT Summer School 2008 'Modern Taxonomy and Field Work' was held from 31/08/2008 – 14/09/2008 in the French/Italian Alpine nature reserves of Parc National du Mercantour (PNM, France) and Parco Naturale delle Alpi Marittime (PNAM, Italy).

Accommodation in Italy was provided by:

- *Balma Meris: http://www.atbi.eu/mercantour-marittime/?q=node/109 (St Anna di Valdieri, Albergo-Rifugio Balma Meris, Frazione Sant'Anna 55, 12010 Valdieri, Tel: +39 0171 977832)*
- *Locanda del Sorriso: http://www.atbi.eu/mercantour-marittime/?q=node/106 (Entracque, Locanda del Sorriso, Fraz. Trinità, 12010 Entracque, Tel: +39 0171 978388, E-mail: locanda.sorriso@inwind.it)*

In France, accommodation was provided by:

- *Neige et Merveilles: http://www.atbi.eu/mercantour-marittime/?q=node/438 (Tende, Roya Valley, Adresse : La minière de Vallauria, 06430 St Dalmas de Tende, Tél : +33 (0) 493 04 62 40, Fax : +33 (0) 493 04 88 58, doc@neige-merveilles.com, web site : www.neige-merveilles.com)*

2. Organization

Organizing institutes – EDIT (WP8)
NBGB: National Botanic Garden of Belgium (Belgium)
RBINS: Royal Belgian Institute of Natural Sciences (Belgium)
RMCA: Royal Museum for Central Africa (Belgium)

In cooperation and close collaboration with:
MNHN : Muséum Nationale d'Histoire Naturelle (France)
PNAM: Parco Naturale delle Alpi Marittime (Italy)
PNM: Parc National du Mercantour (France)
SMNS: Staatliches Museum für Naturkunde Stuttgart (WP7)

3. Schedule of preparatory activities

1. In 2007: Activities for the implementation of the EDIT Summer School for Modern Taxonomy were undertaken in two phases, due to the departure of a staff member in June 2007 and the subsequent replacement by a new staff member (15-NBGB, 14-RMCA) seven months later. In phase one, a call for training providers was placed online on the WP7 ATBI+M Forum. This was met with few responses, perhaps due to a lack of follow-up after the departure of the staff member. In May 2007 an exploratory visit was carried out in collaboration with WP7 and a report entitled “Summer school programme: report fieldtrip Parc National du Mercantour (PNM)/Parco delle Alpi Marittime (PNAM)” was filed in June 2007. During the EDIT-workshop 'ATBI+M methods & protocols', the Summer School was also discussed
2. In January and February 2008 (Month 22 and Month 23): The main activities required for the organisation of a summer school on taxonomy were discussed during various meetings between the organizing institutions: RBINS, RMCA and NBGB.

- A preliminary budget calculation was made in order to obtain a rough overview of expenses and activities.
- Development of the website
- Identification of outreach possibilities (where to advertise the website, mailing lists, internet forums…)
- Cooperation initiated with the collaborating institutes (SMNS, PNM, PNAM)

3. In March and April (Month 24 and Month 25): The website was advertised and a call launched for training providers. Feedback received from this call was attended to. At the end of March we were informed by the MNHN of the possibility to apply for additional funding from the French Government (application period 12/03 -15/04). In collaboration with the MNHN an application was filed with the French Government to obtain additional funding. Further outreach (including development of extensive European University mailing list) and continued management of enquiries from prospective teachers.
4. In May and June (Month 26 and Month 27): We were informed that the application with the French Government was successful and that the EDIT Summer School would benefit from 15 000 euro additional funding. Enquiries became much more frequent, both from students and training providers. During the first week of June a preparatory visit was made to the location of the Summer School and the local contact persons (Marta De Biaggi in Italy and Marie-France Leccia in France) were visited. In Italy discussions were held with the proposed hotels and it was understood that the teachers and students would be able to stay at the same location (Locanda del Sorriso) – this was initially not the case (in September when the summer school was held, it was again not possible for students and teachers to stay at the same location – see below). All focal sites in Italy and France were visited to evaluate accessibility and habitat differences. Notes were made with regards to local transport facilities in view of writing a Travel Guidelines (Annex). The call for students was closed on the 1st of June and students were informed whether their application had been successful by the 16th of June. The selection committee consisted of the following persons: Isabella Vandevelde (RBINS), Juan Carlos Monje (SMNS), Patricia Mergen (RMCA), Kim Jacobsen (RMCA) and Jérôme De Greef (NBGB).
5. In July and August (Month 28 and Month 29): Further management of activities in preparation of the Summer School continued (purchasing equipment; organization of transport of this equipment to the location of the Summer School; acquiring the syllabus contributions from each training provider and printing the syllabus; organizing sampling permits in liaison with the National Park authorities of PNM and PNAM…)
6. In September and October (Month 30 and Month 31): In September the First EDIT Summer School 2008 was held in Italy and France. In October this report was drafted.

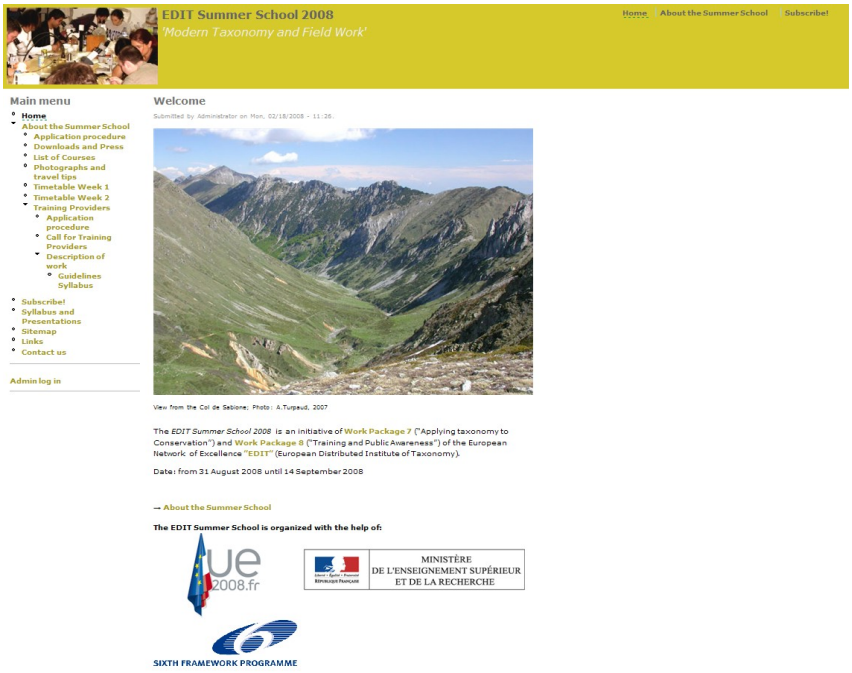
First EDIT Summer School 2008		
Timeline	Activities	Objectively verifiable indicator
January 2008	Initiate preparations of the First EDIT Summer School 2008 'Modern Taxonomy and Field Work': • Contact with cooperating and collaborating institutes (SMNS, PNM, PNAM) to discuss: logistics, accommodation, local organisation	
February 2008	Preliminary curriculum proposal Preliminary budget proposal: • Logistics, accommodation, estimated number of students and teachers based on a proposed curriculum	C8.3.1.3 - EDIT Summer School: Status report of the First Summer School is available (preliminary budget, curriculum, plan of action: location, logistics, accommodation) See: http://www.e-taxonomy.eu/files/C8.3.1.1Outline_and_curriculum_SummerSchool_v3.pdf
March 2008	Website for SS1: • Construct website Curriculum: • Identify main structure of summer school programme Informal call for teachers (target potential training providers): • Contact teachers who have expressed interest in the past (networking)	
April 2008	Apply for additional funding	Website SS1 functional Funding application submitted
May 2008	Formal call for teachers and students: • Mailing lists (own, EDIT team leaders, CETAF…) • News-item on forums (BioCase, AlterNet, MarBef, ENBI, TDWG, GBIF…)	Advertisement of SS1 is visible via search engine Google
June 2008	Continued management SS1 (incl selection teachers) Visit Location First Summer School: • Confirm proposed plan of action (C8.3.1.3): logistics, accommodation, prices, contacts… Selection of Students	List of student participants available Mission report of first visit to the location of the summer school
July 2008	Continued management SS1 (incl selection teachers)	
August 2008	Continued management SS1 (incl selection of teachers)	
September 2008	• First Summer School (SS1: 31/08 – 14/09)	

October 2008	Report: • Hard copy: Report on the First Summer School incl integration of feedback forms from students/teachers • Online: update website SS1 Informal contact with teachers SS1 to confirm possible interest for SS2	C8.3.1.2 - EDIT Summer School: Report of the First EDIT Summer School is available

4. Outreach:

4.1. Website: *http://www.atbi.eu/summerschool*

A website was set-up to advertise the summer school and provide additional information for prospective/successful participants before and after the selection of candidates had been made. The website was developed in February and advertised for the first time together with the call for training providers on 05/03/2008 via the EDIT WP7 forum.
After the summer school the website was updated by providing the content of the syllabus and the presentations of each training provider on-line. Prior to uploading this information on the website, the training providers were contacted individually and asked whether they agreed to place their contribution on-line. For some courses the syllabus or presentation was not placed on-line because (1) it was not complete, (2) because unpublished data was presented or (3) because the teacher simply preferred not to make their course material available to a larger audience. If specific interest were to arise for one of these courses (without on-line content) the lecturer can be contacted personally on a case-by-case basis.



Screenshot of the EDIT Summer School website

4.2. Mailing lists

The following mailing lists were contacted to advertise the EDIT Summer School: EDIT team leaders, CETAF and a mailing-list constructed via the website of the EUA.
Mailing list constructed via the EUA website: The European University Association (EUA) represents and supports higher education institutions in 46 countries, providing them with a forum to cooperate and keep abreast of the latest trends in higher education and research policies. Members of the Association are European universities involved in teaching and research, national associations of rectors and other organisations active in higher education and research. A comprehensive list of all Members of the EUA is available via their website (www.eua.be). In order to obtain a suitable mailing list of biology departments at European Universities, the website of each member of the EUA was visited.
In total 791 websites were visited. Some websites were not functional; others were not easily accessible for non-native speakers. Only websites of universities with a biology department were further explored; in total 382 universities had a biology or bioscience department. In total 982 email addresses were collected in this way.

4.3. Flyer (Annex)

An A4 flyer was made for distribution at the ALTER-Net WP14 meeting in Budapest (April, 2008). This flyer was distributed to the mailing lists.

4.4. Other websites and forums

The following websites and internet forums were contacted: MarBEF (EU NoE Marine Biodiversity and Ecosystem Functioning), GBIF (Global Biodiversity Information Facility), TDWG (Biodiversity Information Standards), AlterNET (EU NoE A long term biodiversity, ecosystem and awareness research network), ENBI (European Network for Biodiversity Information), BioNET International (A Global Network for Taxonomy), Doctorat.be, IPCB (International Press Centre for Biodiversity research).
News of the first EDIT Summer School for Modern Taxonomy and Field Work was later picked up and advertised independently by other websites, such as CORDIS (Europe Community Research & Development Information Service) and Publicpolitics.net (Political and Public affairs News Monitoring).

4.5 Newsletter and Press

The summer school was advertised in the EDIT Newsletters March 2008, Newsletter #8 & June 2008, Newsletter #9. A press release was sent to Nature, Science, the press office at Oxford University, the Independent, the Guardian and the MNHN (where it was translated to French,
(see: http://www.mnhn.fr/museum/front/medias/commPresse/15713_CP-Museum_EDITuniversite_ete.pdf).

Press release
European Summer School trains young biologists in the Maritime Alps

In the rich natural beauty of the Maritime Alps, 20 young biologists from 13 European countries are currently learning about the importance of taxonomy. In biology, taxonomy is the science of classifying and identifying biological organisms. EDIT or the European Distributed Institute of Taxonomy, is a European Network of Excellence for the advancement of taxonomy. The first "EDIT Summer School for Modern Taxonomy and Field Work" has brought together professional taxonomists from Belgium, Germany, Italy, Denmark, Sweden, France and Great Britain to teach students how to sample, identify and classify the biodiversity of living organisms.
With a common border of 35 km, the Parc National du Mercantour in France and Parco Naturale delle Alpi Marittime in Italy provide an ideal setting for the EDIT Summer School. In France, prehistoric drawings dating back to the Bronze age form the largest open-air site for rock engravings in Europe. The stunning surroundings of both parks combine with this ancient cultural heritage to remind us of the importance of passing on knowledge and skills to young researchers. An increased awareness of the plants and animals around us is especially relevant today as the earth faces species extinction at a rapidly increasing pace.
More information can be found at http://www.atbi.eu/summerschool/

An article was published in Nice Matin entitled: "Biodiversité: les chercheurs en danger d'extinction", by J-P Fronzes (http://www.atbi.eu/summerschool/files/Nice%20Matin_EDIT.pdf).

5. Selections

Eligible countries (taken from the Eligibility criteria used by Synthesys, see: http://www.synthesys.info/access.html):
Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark (including Greenland), Estonia, Finland, France (including Guadeloupe, Martinique, Guyane, La Réunion), Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, UK.
Plus the Associated Countries of the EU: Croatia, FYR Macedonia, Iceland, Israel, Liechtenstein, Republic of Serbia, Switzerland and Norway and Candidate Countries of the EU: Turkey.

5.1 Selection of students

In total 30 students applied on-line for the EDIT Summer School. Of these, 23 applications were complete and timely before the deadline. From these 23 students, 20 students were chosen to receive a grant from EDIT to attend the First EDIT Summer School 'Modern Taxonomy and Field Work'.
Selection criteria as advertised on the website:

Applications are open to students of all nationalities, who are:

- Currently enrolled in (or recently graduated from) a European University as a Master's student in a natural science discipline
- Affiliated, through current study or work, with an EDIT Institute or a European University or Research Institute, as a recent graduate.
- Fluent in the English language (ability to understand and communicate in English), as all classes will be taught in English.

If you are accepted, we will provide:

- Transport from the country where your University/Institute is located to the location of the Summer School
- Full board
- Accommodation (in dorms of 2-8 people) for the full period of your stay.

Please note that some of the field work will be carried out in mountainous terrain and rough ground. You should take the necessary precautions with regard to walking gear and have an adequate physical condition. If you are accepted, you must provide a doctor's certificate stating that you have no pre-existing medical condition that prevents you from staying at high altitude areas, as well as proof of insurance coverage for the entire period of the Summer School.

There are only a limited number of places available (max. 20) and only 1 or 2 students per country will be accepted (depending on the nationalities of the applicants). It is therefore very important that you fill out the application form correctly.

Please apply using the online application form AND via regular mail. Important steps:

1. Online: Fill in the application form, preview and print 2 copies (using the print function in your browser). Keep 1 copy of the complete application form for your own file.
2. Online: Submit the application form online
3. Snail mail: Send 1 copy of your complete application form, 2 reference letters and proof of enrollment in an MSc program or a certified copy of your MSc diploma (or equivalent) by mail to: *EDIT Summer School 2008, c/o Kim Jacobsen, Royal Museum for Central Africa, Department of Zoology, Leuvensesteenweg 13, 3080 Tervuren, Belgium.*

IMPORTANT! Your application is not complete until we receive your complete application form, 2 reference letters and a certified copy of your MSc diploma or proof of enrollment.

Student application deadline: 01/06/2008

Students were selected using the following criteria:

- The completeness and timeliness of their application (online registration, application also sent via airmail including two

recommendation letters and a copy of their MSc diploma or proof of enrolment in an MSc program)
- Their educational background
- Their degree (PhD or MSc)
- The motivation cited in their application
- The probability of using the knowledge acquired during the summer school
- The recommendation letters

During the selections care was taken to achieve equality (=good distribution) in the following characteristics: nationality, gender (this was not possible due to a much higher number of female applicants), degree (MSc/PhD).
Statistics of the selected group (n=20) of students (List of participants, Annex):

- Nationality: 13 nationalities
- Location of University/Institute: 17 universities/institutes
- Gender: 80% Female vs. 20% Male
- Degree: 50% PhD vs. 50% MSc

5.2. Selection of training providers

Training providers were selected using the following criteria:

- Demonstrated expertise in the field for which they volunteered: demonstrated using relevant publications
- Vacancy of the position: if a suitable candidate has been appointed for a position, the vacancy was closed and all subsequent applicants were placed on a reserve list.

Statistics of the selected group of training providers (List of participants, Annex):

- Location: 7 countries
- Universities/Institutes: 14 different universities/institutes
- Gender: 50% Female vs. 50% Male

6. Activities during the First EDIT Summer School

6.1. Curriculum

Modules	Course Topic & Description	Location of module		Lecturers/Field researchers	Institution or University
		Classroom	Field		
Welcome and General Introduction to the national parks of Alpi Marittime and Mercantour	The history and importance of the PNM/PNAM. Reintroduction programs in PNM/PNAM; Natural resource management and sustainability; safety guidelines and code of conduct in mountaineous regions	√	√	*This course will be taught by local rangers*	
All Taxa	Origin of the concept and current	√		Dr Christoph	Staatliches

Biodiversity Inventories and Monitoring	implementation of ATBI+M within the EDIT framework. The importance and use of data collection standards during sampling - overview of the topics addressed during the Summer School (georeferencing, sampling and identification methods, data-entry and data-management)			Häuser	Museum für Naturkunde Stuttgart (SMNS), Germany
General introduction to the basic concepts of taxonomic theory and practice	a. Introduction to Taxonomy: What's in a name? (Botany, Zoology and the IUBS). Alpha-, beta- and gamma-taxonomy	√		a. Dr Henrik Enghoff	a. National Museum of Natural History of Denmark
	b. History of Taxonomy			b. Dr Mariette Manktelow	b. Dept of Systematic Biology, Uppsala university, Sweden
Modules	Course Topic & Description	Location of module		Lecturers/Field researchers	Institution or University
Modern field work and specimen collection protocols	a. Biodiversity of the entomophagous parasite Strepsiptera and their hosts (seven orders) in the Mercantour/Alpi Maritime Region	√	√	a. Strepsiptera: Dr Jeyaraney Kathirithamby, Dino P McMahon, Dr Alexander Hayward	a. University of Oxford, United Kingdom
	b. Introduction to systematic of bees			b. Apidoidea (Apiformes): Dr Sébastien Patiny	b. Gembloux Agricultural University, Belgium
	c. Species reality in asexuals: the example of bdelloid rotifers			c. Rotifera: Dr Diego Fontaneto	c. Imperial College London, United Kingdom
	d. Fieldwork methods for plant inventory and sampling			d. Plant inventory and sampling: Dr Sandrine Godefroid, Dr Fabienne Van Rossum	d. National Botanic Garden of Belgium (NBGB), Belgium
	e. Entomology: Using Taxonomy/Global diversity and the rain forests/taxonomy of long legged flies or dolichopodids (Insecta, Diptera, Dolichopodidae)			e. Entomology: Dr Patrick Grootaert	e. Royal Belgian Institute of Natural Sciences (RBINS), Belgium
	f. Bioacoustics. Field and laboratory equipment for sound recording and analysis			f. Bioacoustics: Dr Gianni Pavan	f. Centro
	g. Introduction to geo-referencing: how to use a GPS and maps for the collection and checking of georeferenced data				

			g. Georeferencing: Bart Meganck	Interdisciplinare di Bioacustica e Ricerche Ambientali - University of Pavia, Italy g. Royal Museum for Central Africa (RMCA), Belgium
Biodiversity	What is it? Why is it important? How is it measured? Alpha-, beta- and gamma-diversity. Recognizing the importance of taxonomy for biodiversity research: (inter)national solutions for the taxonomic impediment.	✓	Dr. Natasha de Vere	National Botanic Garden of Wales, UK - Wales
Documenting diversity	a. DNA-barcoding and molecular phylogeny: Introduction to molecular taxonomy b. Biodiversity information and cybertaxonomy: international initiatives to inventory the earth's biodiversity (GBIF, Synthesys, Zoobank, EDIT, EoL, SpeciesBase, LifeWatch...) c. Electronic ID-keys: Xper²: training and example of management system for description and free access identification key	✓	a. Floris Breman and Dr Olivier Raspé (*2 x 1h30)* b. Dr Anne-Sophie Archambeau c. Dr Elise Kuntzelmann & Dr Hélène Fradin (Dr Régine Vignes)	a. Royal Museum for Central Africa, Royal Belgian Institute of Natural Sciences & National Botanic Garden of Belgium, Belgium b. GBIF France, France c. Museum National d'Histoire Naturelle (University Pierre et Maris Curie (Paris 6)), France
Modules	**Course Topic & Description**	**Location of module**	**Lecturers/Field researchers**	**Institution or University**
Opportunities for further research in the field of taxonomy	Doing a PhD in taxonomy: Where to start? How to apply for EU funding? What courses are available? European Mobility Schemes (Erasmus, Leonardo...) a. Mobility: (European) mobility for	✓	a. Jef Vanraepenbusch (Guidance counsellor)	a. EUROGUIDANCE Flemish Department for Education and Training (DBO), Belgium

students and researchers b: Job opportunities for scientists at the European Union	b. Dr Isabella Vandevelde (Dr Patricia Mergen)	b. Royal Belgian Institute of Natural Sciences (Royal Museum for Central Africa, Belgium)

6.2. Weekly schedule:

Programme of the EDIT Summer School 'Modern taxonomy and Field Work'
- first week -

	SUN 31/08	MON 01/09	TUE 02/09	WED 03/09	THUR 04/09	FRI 05/09	SAT 06/09
7h30		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
	Arrival	ATBI talk (1h30')	Geo-referencing (full day)	Rotifera (theory) + Parallel classes (field work) - Botany - Rotifera	Strepsiptera (theory) + Parallel classes (field work) -Strepsiptera - Botany	Strepsiptera (theory) + Parallel classes (field work) -Strepsiptera - Botany	Free Day Hiking + Preparations for travel to France
10h		Coffee	Coffee				
		Introduction to Taxonomy (1h30')	Geo-referencing				
12h		Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
		History of Taxonomy	Geo-referencing (field practice) 18h: Santo2006 II	Parallel classes (field work) - Botany - Rotifera	Parallel classes (field work) -Strepsiptera - Botany	Parallel classes (field work) -Strepsiptera - Botany	
14h30		Coffee					
18h00		Welcome speech by rangers of PNM & PNAM 18h: Santo2006 I					
19h	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner

Programme of the EDIT Summer School 'Modern taxonomy and Field Work'
- second week -

	SUN 07/09	**MON 08/09**	**TUE 09/09**	**WED 10/09**	**THUR 11/09**	**FRI 12/09**	**SAT 13/09**
7h30	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
	Travel to France Free day	Biodiversity	Entomology + Bioacoustics (Theory) Parallel classes: Entomology Bees Bioacoustics	Entomology (Theory) Parallel classes: Entomology Bees Bioacoustics	Entomology (Theory) Parallel classes: Entomology Bees Bioacoustics	Bioacoustics (Theory and feedback)	student presentations
10h		Coffee				Coffee	Coffee
		Introduction to molecular taxonomy				preparation of student presentations	student presentations
12h	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
	Free day Visit to the Museum des Merveilles	Introduction to molecular taxonomy	Bees (theory) Lab work Entomology Bioacoustics Bees After Dinner Talk: History of 'La Minière'	Lab work Entomology Bioacoustics Bees After Dinner Talk: Rock engravings at the Vallée des merveilles	Lab work Entomology Bioacoustics Bees After Dinner Talk: Fauna and Flora of the Parc National du Mercantour	preparation of student presentations	Preparation for departure
14h30		Coffee				Coffee	
18h00		EU Mobility schemes & Job opportunities for young scientists at the EU				Biodiversity information and cybertaxonomy (theory) + Electronic ID-keys (theory)	
19h	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	Dinner

6.3. Student presentations

On the second day of the EDIT Summer School students were randomly divided into three groups. Each group was given a topic title for a student presentation, which they were asked to prepare (based on what they learnt during the Summer School) by the end of their two week stay.

- Group 1: Modern Taxonomy
- Group 2: Geo-referencing and sampling Methodology
- Group 3: Biodiversity and the Environment

Each group was given the opportunity to use a laptop on which to prepare a presentation to show to the other students and the teachers at the end of the Summer School.

6.4. Extra-curricular activities

Italy:
01-02/09/2008: from 18h-19h00 a documentary about the Santo 2006 expedition was shown on DVD
02/09/2008: Social Dinner at Balma Meris (as students and teachers were not housed at the same hotel in Italy, one night was organized where everyone had dinner together)
06/09/2008: Students went hiking in Italy during the day; at night a visit was organized so the students could visit a local cave (Grotta del Bandito) where a rare species of salamander (*Speleomanthes strinatii*) lives.
France:
07/09/2008: In Tende village: Lunch at La Marguerita (pizzeria); Visit to the Museum of the Merveilles (about the rock engravings at Vallée des Merveilles)
09-11/09/2008: Evening talks about: the History of La Minière (old mining village where the summer school in France was situated); The rock-engraving site (Vallée des Merveilles); local fauna and flora (Parc National du Mercantour)

7. Financial report

7.1. EDIT funding

Funding requested from EDIT, based on preliminary budget estimates made prior to the execution of the summer school was 39.000 euro.

7.2. Additional funding

The French Government (Ministère de l'Enseignement Supérieur et de La Recherche) kindly provided an additional funding of 15.000 euro.

7.3. Structure of the expenses made during the First EDIT Summer School 2008

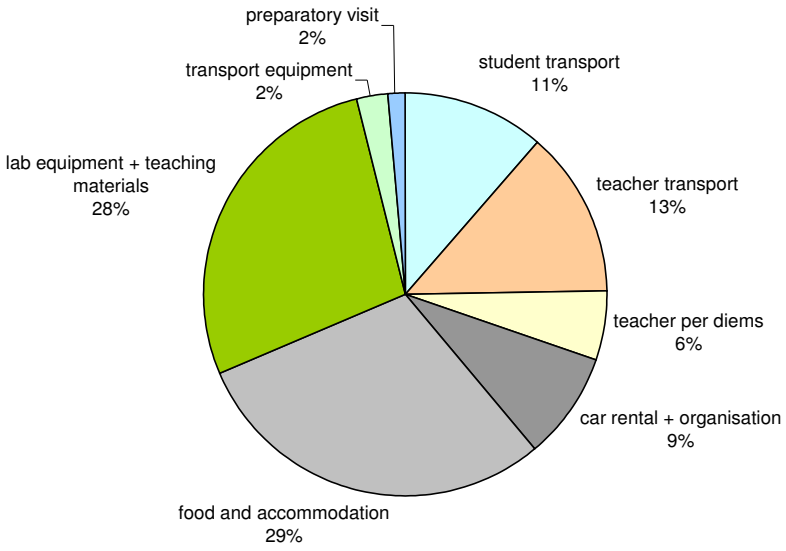


Figure 1: Approximative Structure of the expenses made during the First EDIT Summer School 2008 (based on expense estimates and actual expenses October 2008)

8. Feedback from Participants

Students and training providers were given evaluation sheets either during the summer school (students) or afterwards (training providers). (See Annex A5).

8.1. Feedback from students

For an overview of the feedback given by the students concerning their general experience of the EDIT Summer School please see Figure 2. The First EDIT Summer School met the expectations of most students (60%). Many students appreciated in particular the acquirement of new skills and interactions with professional taxonomists. Some students, however, said that they expected more in depth courses about taxonomy and identification of organisms or a closer link with the ATBI+M activities of WP7. By and large though, 80% of the students thought that the Summer School would benefit their career through the contacts made, ideas for new projects and the acquirement of new skills.
Eighty percent of the students said they had increased their knowledge of taxonomy. More than 60% of the students said they were more inclined to pursue a career in taxonomy or taxonomy-related subject. The remainder (40%) of the students replied “neutral” to this question, as they were already pursuing a career in taxonomy and would have done so with or without the Summer School.
Roughly half of the students found the courses adapted to their level of education: students found some classes too basic and others too hard. In general more comments remarked that the classes were too easy, rather

than too hard. Several students would have liked more advanced topics or found that the classes were not adapted to PhD-level.
Most students (>80%) found that there was enough time to discuss with the lecturers, although a general remark was that (for Italy) the interactions would have greatly improved if students and teachers had shared the same location for accommodation and dinner.
Most students (~=80%) found the student presentations at the end of the summer school useful. It was perceived as a good exercise, good to work in a team with a deadline and a nice summary of the two weeks of the summer school. However, quite a few students remarked that it was stressful and that more time should be given (preferably 1 full day) to prepare. Although a few students complained that there was no internet or much additional reading material outside of their syllabus, most students understood that the objective was not to provide an exhaustive account of the topic, but rather to show what they had learnt from their two week stay.
The majority of students (>90%) were content with the feedback and information given before the summer school, stating good and efficient email contact. Some students remarked that the packing list could have been better (they were asked to bring some lab safety equipment, which was not used).
The lab equipment was rated as excellent, good or fair by all students.
Most students (80%) found that there was enough rest and recover time between activities, however, many students remarked that there was too much rest/recover time in Italy (this was mainly due to the difficult logistic situation in Italy where the lab facilities, accommodation for students and accommodation for teachers were situated at three different locations).
The social dinner (organized in Italy, to bring students and teachers together) was viewed as positive by the students. However, many students remarked that more such events should have been scheduled (especially in Italy) and that they were fortunate that the group interacted well. A few students complained that they had to organize their own social events, that they should have had the opportunity to visit the rock engravings in France (this would have needed one full day), that they should have visited the local towns and museums (this was organized for them in France and in Italy they had the opportunity to visit Entracque after their classes).
Most (>90%) students found the website useful and up to date. One student found it difficult to find information quickly, while another remarked that it would be good to add a map and local weather information.
All students enjoyed the experience and would recommend the next summer school to their fellow students.

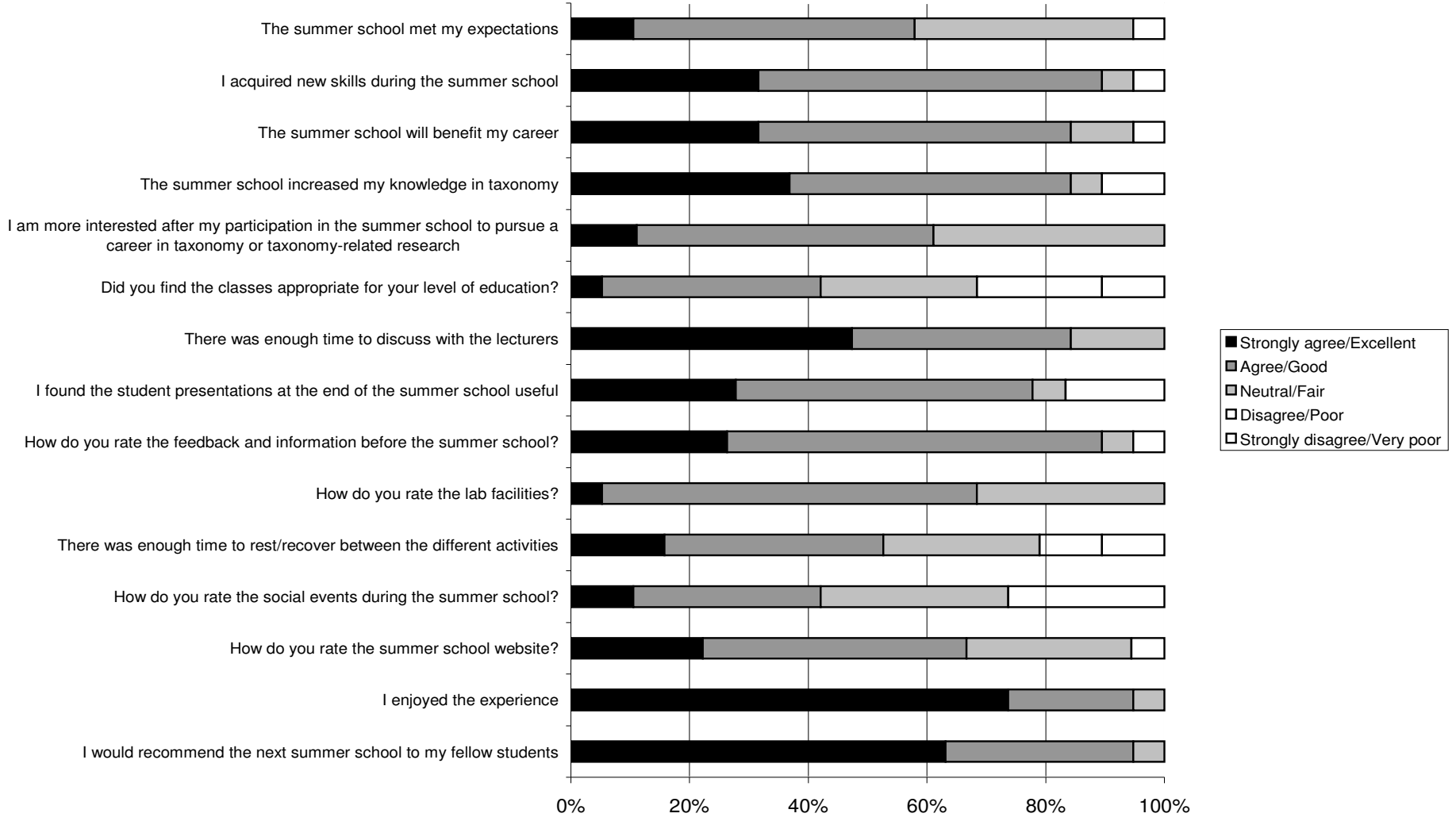


Figure 2: Feedback on students' general experience of the First EDIT Summer School 'Modern Taxonomy and Field Work'

A compilation of comments given by the students is summarized in Table 1.

Table 1: Comments given by students about their general experience of the first EDIT Summer School.

Overall Experience
The EDIT Summer School 2008 met my expectations.
Comments: *It was good to meet professionals in different areas of taxonomy;* *I learnt new sampling methods and species ID methods;* *I expected more up to date information (news), more field work with actual monitoring of the ATBI sites;* *I expected more topics directly linked to taxonomy (case studies, present problems in taxonomy and discussion of those);* *I expected more in depth identification/classification of organisms;* *I expected more botanical lectures and field activity;* *Didn't really know what to expect;* *I expected less comfortable hostels and more walking by foot;*
I acquired new skills during the Summer School.
The acquired skills cited by students varied widely depending on their background.
The Summer School will benefit my career.
Please explain: *It was great to be able to network;* *I acquired various skills;* *I have new ideas for projects;* *It can be mentioned in my CV;* *It was nice to meet like-minded people*
The Summer School increased my knowledge of Taxonomy.
Comments: *I learnt a lot of things and some things I finally understood;* *I wasn't familiar with DNA barcoding or bioacoustics before;* *I learnt more about molecular research and about taxonomic groups that I wasn't familiar with before;* *My knowledge of taxonomy remained more or less the same;* *Nothing new in Botany, but my knowledge in zoology has certainly increased;*
I am more interested after my participation in the Summer School to pursue a career in Taxonomy or taxonomy-related research.
Please explain: *The summer school increased my enthusiasm for the subject;* *I am more interested to pursue a career in taxonomy than before the summer school;* *I now realize that there are more opportunities than I previously thought for studying undescribed species;* *I don't know yet what career to pursue but believe every scientist should know about Taxonomy;* *Although I am already pursuing a career in taxonomy the course really encouraged me and showed me how many opportunities there are;* *I was already interested in taxonomy before;*
Did you find the classes appropriate for your level of education?
Comments: *Some classes were very basic but this was appropriate given we all had*

different backgrounds; *Some things were too easy others too hard;* *Some classes would have benefited from starting at a very basic level as an introduction to very specialised areas;* *It would have been more useful to discuss the pros and cons of different sampling methods than to study sampling methods most had already learned in university;* *The two weeks could have included more advanced topics as well;* *I was already familiar with many things presented here;* *No definitely not, too basic and too general, the classes were not adjusted to PhD level, rather to graduate level;*
There was enough time to discuss with the lecturers.
What can be improved? *Introduction of the lecturers when they arrive would be better;* *Some teachers were not in the mood for discussion;* *A lack of social interaction in Italy because teachers and students were not housed at the same location;* *Some of the lecturers could have been more interested in hearing what the students were studying*
How do you rate the lab facilities?
What can be improved? *More microscopes and laptops;* *Chairs were too small;* *A little bit disorganized;* *I would have expected a molecular lab (although I understand this is difficult in the alps);*
How do you rate the feedback and information before the summer school?
Comments: *It would have been nice to have a list of participants and email addresses/locations beforehand so we could organize travelling together;* *Good email contact with fast and accurate messages;* *Very convenient and helpful;* *The equipment list could have been better;*
I found the student presentations at the end of the Summer School useful.
Comments: *A good opportunity to speak scientific English;* *It took time and attention away from the lectures and was too stressful because of lack of time and lack of equipment, the results were very interesting though;* *Good exercise to see how people perceived what had been taught;* *One whole day should be set aside to prepare for student presentations at future summer schools;* *It was good to work in a team with a deadline;* *We should have had more preparatory material to read;* *It is not possible to prepare a proper presentation without books and internet;* *It nicely summed up the school;* *Very useful but a bit stressful;*
There was enough time to rest/recover between the different activities.
Comments: *Yes I was happy;*

In Italy the free-time after dinner was good, in France the after-dinner talks were a bit too much; *Too much rest and recover time;* *We were not always well-informed that there was "free time" so we spent some time waiting;* *Really glad there was a free day for hiking; good, but perhaps too much free time in Italy;*
How do you rate the social events during the Summer School?
What can be improved? *Apart from the social dinner there were no other social events;* *In the weekends it would have been good to visit the local town or museum, gardens…;* *It would have been better to always have stayed at the same location with the teachers (this was not so in Italy);* *There was only one social event and I think we were lucky that the group interacted well (this is not always the case!);* *We should have had time to visit the rock engravings in France;* *It was nice to have a dinner with the teachers in Italy, but it would have been better to introduce the teachers first*
How do you rate the Summer School website?
Comments: *Very informative;* *Updating was good;* *Not always easy to find the information you need fast; useful;* *It would have been useful to have some basic maps of where we were going and the weather*
I enjoyed the experience.
Comments: *There should be an equal distribution between taxonomic groups, so that the students/lecturers can be divided into different groups this way;* *It was great to be with people of common interests and the program was intense, but I liked that; great new insights;* *Excellent;* *Unforgettable things happened;* *Brilliant, I met many amazing people;* *I had the time of my life, great staff, great group, loved it all*
I would recommend the next Summer School to my fellow students.
Comments: *It's always a beautiful experience to meet people from different countries and talk with professors in an informal environment;* *I would recommend it to graduate students;* *Definitely;* *It is very important for students starting with taxonomy;* *Yes, if the botanical aspect was expanded;* *Yes, although the classes varied quite a bit (beginners level for some – advanced for others). I would also advise them to research how to identify plants and insects first; definitely*
Additional comments?
Thank you very much; *Super – fantastic experience;* *I feel privileged to have been a part of this summer school;* *Great place to network with people in your field of expertise + other fields;* *It would be more satisfying if some subjects could be explored in more depth and more complex problems in taxonomy tackled;*

A similar quantity of genetic/botanic/zoological subject matter would be interesting;
Name badges would be good – the teachers should have been introduced to the groups;
More balanced ratio male/female students;
Some days it was confusing to know what the program was (should be discussed each evening before);
Students should always be free after dinner;
It would have been good to see the rock engravings in France;
More different specialists;
In Italy the vans should have been constantly travelling between the field station and the location of accommodation for the students so that we didn't have to wait;
It was not always clear when it would be cold and we should bring extra clothes;
Too many entomologists – it would have been nice to have an ornithologist, mycologist…;
Although it is interesting to broaden your horizons the amount of entomological work (vs botanical work) was time consuming and inefficient (because two weeks is a long time to be away from your job) – it might be better to separate the groups in the future or to indicate more clearly on the website that the course is for all taxonomic groups and perhaps not suitable for all taxonomists;

Students' general appreciation of the theory and field work classes is illustrated in Figure 3. Feedback greatly varied from student to student, depending on their background training and current research interests. The comments given by the students on individual courses were sent individually to each lecturer and field researcher for their information. These comments and individual ratings will remain confidential between the lecturers and the organizers (Annex, A.6).

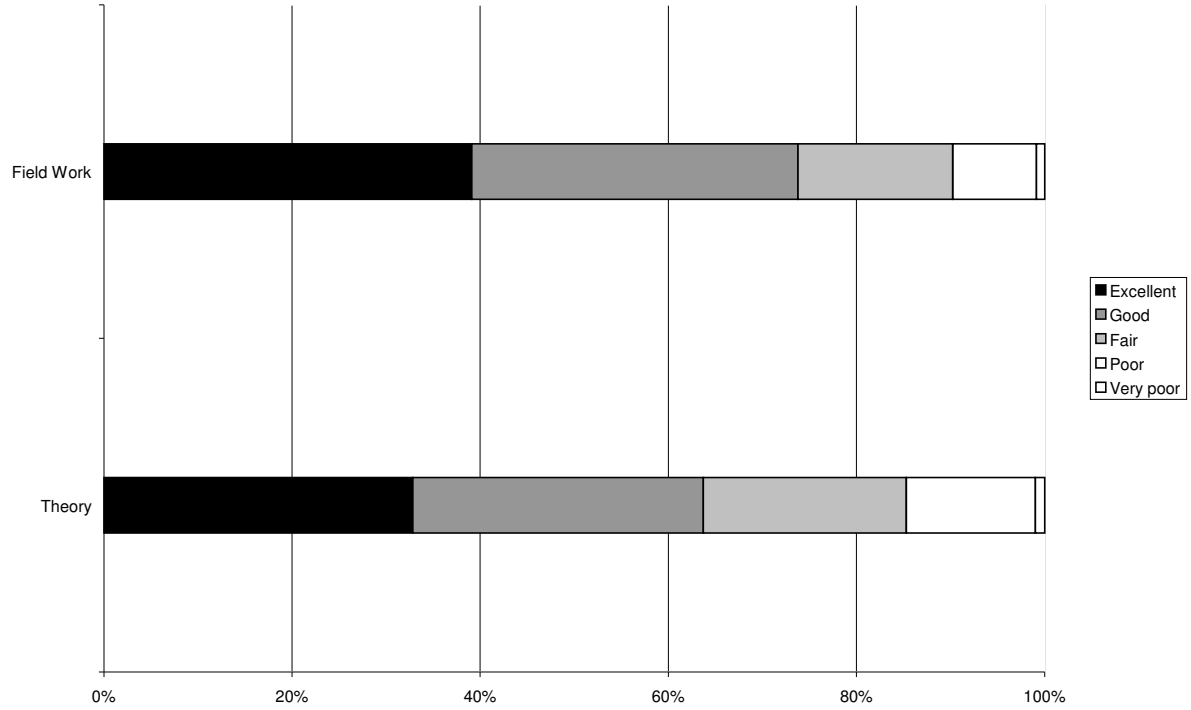


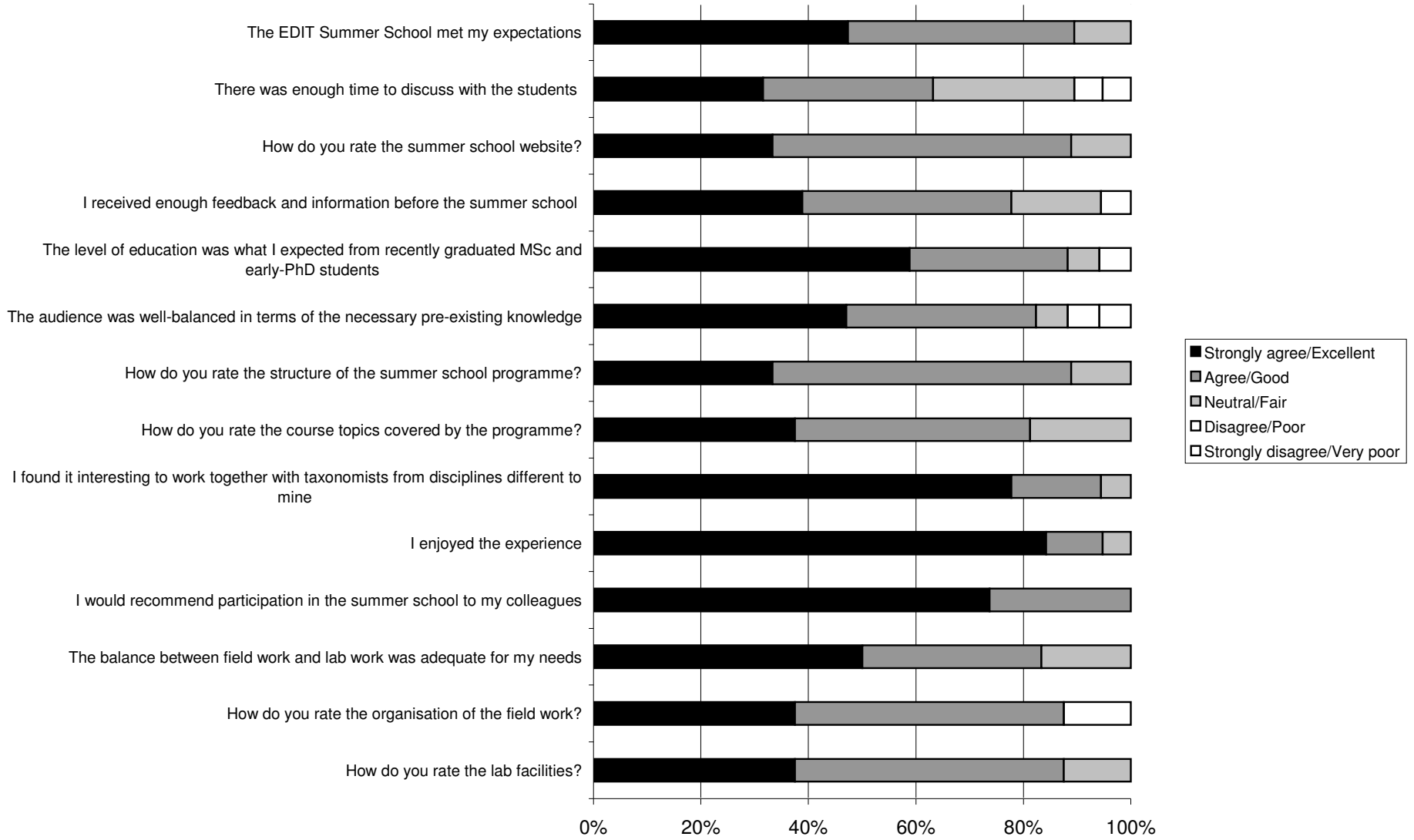
Figure 3: Feedback on students' perception of Theory and Field Work during the First EDIT Summer School

8.2. Feedback from teachers

The feedback received from the teachers is given in Figure 4 and Table 2. The First EDIT Summer School met the expectations of more teachers (>80%) than students (60%). Similar comments were given by teachers who were present during the first week in Italy: namely that the summer school would have benefited from students and teachers sharing the same location for accommodation and dining. While many teachers (>60%) thought there was enough time to discuss with students, suggestions to further improve teacher-student interactions included the following: showing documentaries with discussions afterwards, more open-workshop style where students can freely access the lab and increase their knowledge of taxonomic groups depending on their interest level, time after student presentations to discuss (as it was quite rushed). One teacher remarked that although she was only there to lecture a theory class, she would have liked to participate in the field work as well.
The website was rated excellent to good, very clear and easy to navigate by most (90%) teachers, although some comments for improvement were also given: improve the lay out for the list of courses and more detail for the weekly schedule. Likewise, most teachers (80%) found the feedback given before the summer school good to excellent. One teacher requested more feedback regarding local flora, while another remarked that the objectives of the courses should be better defined beforehand.
The level of education of the students met the expectations of most teachers (>80%), likewise the teachers generally (80%) found the audience well-balanced in terms of the necessary pre-existing knowledge. Two teachers would have liked to receive information about student CV's

beforehand so that they could better adapt their presentations with student backgrounds in mind. A few teachers remarked that educational levels were quite variable.
While most (90%) teachers rated the structure of the summer school programme good to excellent, a few teachers remarked that the structure could be further improved by choosing a better balance of training providers or by allowing more balance in the attention given to certain courses (although this depends on the objectives).
Concerning the course topics covered by the programme, 80% of the teachers rated good to excellent. Suggestions for improvements included increasing the variation in taxonomic groups covered and a few teachers remarked that the curriculum may improve if more general topics were provided (although care must be taken with this approach, as many students rated the courses too easy). Specific suggestions for additional course topics are provided in Table 2.
The majority of teachers (90%) said they enjoyed the experience and would recommend participation to their colleagues. Most teachers (>90%) found it a real plus to work together with other taxonomists of different disciplines than their own, even though it was at times challenging to coordinate the activities/logistics. One teacher remarked that it would have been even more interesting to coordinate a closer collaboration during field work so that students could benefit from a more holistic overview of the ecosystem (e.g. predators/pollinators/flora-interactions).
The lab facilities provided for the field researchers were rated good to excellent by most teachers (90%), while some said that more stereomicroscopes would have been even better. Most field researchers (>80%) found the balance between field work and lab work adequate for their needs. While the organization of field work was rated good to excellent by most teachers (90%), one suggestion to further improve field work included introduction of a general theme (such as collecting for the ATBI+M) so that less emphasis is placed on individual taxa. Another teacher would have liked more information about the objectives of other field researchers beforehand.

Figure 4: Feedback on teachers' general experience of the First EDIT Summer School 'Modern Taxonomy and Field Work'



A compilation of comments given by the teachers is summarized in Table 2.

Table 2: Comments given by teachers about their experience of the first EDIT Summer School.

Overall Experience
The EDIT Summer School 2008 met my expectations.
Comments: *Great experience in an informal but very productive and stimulating atmosphere;* *Yes, overall a good experience and very good to meet taxonomists from disparate fields;* *I was very impressed with the organisation of the course;* *Yes, but the timing was not ideal for botanical field work (earlier in the season would be better);* *Extremely well organized and provided all necessary facilities for the course. Excellent;* *The first organisation of the EDIT Summer School was really fine. The place was finely chosen. The diversity of student origins was particularly interesting for both students and teachers;* *The students seemed very enthusiastic, curious and motivated about their 2 weeks of summer school. There was a diversity of nationalities and specialities. The students were really happy about the organisation;* *I thought I could interact more with the students (participant in Italy);* *There is always room for improvement, however, given the short time lapse for organisation it was really great;*
There was enough time to discuss with the students.
What can be improved? *I really enjoyed the "banquet" (social dinner), great opportunity to talk with students. Could benefit more by students and teachers eating/living together (participant in Italy);* *Having dinner together with the students on all nights would increase the discussion time (participant in Italy);* *Less time in the lab necessary for identifications;* *I had enough time to discuss with the students during lunch and dinner. I would however have liked to have joined the students during their field work!* *I could conceive some kind of permanent workshops, parallel to the lectures, during which the students could freely come, study their material and after theoretical information freely choose to deepen one domain;* *Other than lessons and field exercises, I would include showing documentaries with discussions afterwards;* *I didn't stay long enough to discuss with the students unfortunately;* *In the second week the evenings were a bit overloaded and students needed more time to prepare their presentations – it would have been better to have time to discuss between students and teachers after each student presentation (now it was a bit rushed);* *Students and teachers should be in the same hotel (participant in Italy);*
How do you rate the Summer School website?
Comments: *Easy to navigate;* *I didn't really use it;* *Everything was very clear;* *Lay-out for the list of courses should be improved;* *The terminology used was difficult to understand, same goes for the EDIT website. This is either a EU problem or a French translation problem. The content is good enough;* *Time schedules for Week 1 and Week 2 should be more detailed (regarding time allocated to field work and lab work);* *The location (accommodation/site) should be given in more detail;*

I received enough feedback and information before the summer school?
Comments: *Yes, good preparation and feedback;* *Very good indeed;* *Yes, it was very clear what I needed to do;* *It was not easy to get an idea of the floristic composition of the sites and to prepare the classes;* *All documents and information was available on the web site well in time;* *I think the objectives of each course might have been more precisely stated;*
The level of education was what I expected from recently graduated MSc and early-PhD students
Comments: *The students were excellent;* *Just like myself at that age;* *Yes for their level of education and also their level of maturity;* *If possible I would have liked to have seen the students' CV's beforehand so that I could prepare my lecture with their backgrounds in mind;* *I suppose so – levels were extremely variable though;* *There appeared to be a great difference in the level of education with regards to my own knowledge – it would be good to be informed about students' educational background beforehand;* *It was surprising that some of the students had never heard of some aspects (i.e. species distribution mapping) – so such courses appear to be useful;* *It was not easy to evaluate, but their background seemed quite variable (which may not be bad but would require some adaptations of the courses)*
The audience was well-balanced in terms of necessary pre-existing knowledge
Comments: *Quite variable levels of understanding, but I think that can only be expected.* *Different students, different interests, different expertise;* *Yes;* *Very ok;* *I had no idea as to their background in the field of genetics;* *The feeling I got from the molecular systematics course was that the group was well-balanced, but it was difficult to evaluate given that there was not much space for interaction with the students;*
How do you rate the structure of the summer school programme?
Comments: *Good, a nice experience and an important meeting place for young researchers on the eve of their taxonomic careers;* *The part where I was present was good;* *I enjoyed very much the days I attended and felt that the structure was very good;* *Good, but some disequilibria in the importance given to courses (eg 1 full day for geo-referencing vs 3 hours for molecular systematics, but then again that depends on the objectives);* *It is hard to be objective as we were only there for the last two days but the programme seemed well balanced as is illustrated by the syllabus;* *Can improve by providing more balance in the training providers;* *More coordination among the colleagues before the summer school (who plans to do what) and at least a day of preparation (visiting sites, etc) are necessary;* *There should be an evening or morning briefing detailing the structure of the following day to account for last minute changes;*
How do you rate the course topics covered by the programme?
Suggestions for other course topics in future summer schools: *Bird taxonomy and sampling techniques;* *Lichen and moss taxonomy and sampling techniques;* *Topics were quite specific – perhaps students would benefit more from a more general approach;* *Could improve in general by actively looking for interesting providers;*

Theory and practice of conservation: for example, what is conservation?, what methods do we use?, how do we evaluate conservation action in order to maximise our conservation impact?legislation relevant to conservation in Europe, Importance of taxonomy to conservation; *On the practical side: how to prepare the perfect herbarium specimen;* *Based on my participation in the 2nd week only, I would suggest to include more topics related to the specific summer school site: geomorphology, local fauna and local flora;* *For field work: additional taxonomic groups (non vascular plants, aquatic plants, diatoms…);* *A general insect course would be necessary for the second summer school;* *The other lecturers were of a good level;* *A more general basic taxonomy lecture should be included (discussing the nomenclatural rules) and perhaps more diversity in the groups studied;*
I found it interesting to work together with taxonomists from disciplines different to mine
Comments: *(Comments from a non-taxonomist): It was a whole new world for me of which I was not even aware before;* *I found it interesting to meet researchers from other disciplines within taxonomy;* *I very much enjoyed meeting the other training providers and students and gained a lot from it;* *I regret that we were not working together with taxonomists working on plant pollinator/predators groups. Interactions in the field might have been possible so that the students could get a complete view of the system;* *I only had time to follow the bioacoustics class – but this was very interesting;* *Yes it was a real plus – great to speak to researchers from widely differing disciplines;* *It is always amazing to meet with people in other disciplines especially in taxonomy and especially when the event is taking place in a location with such a rich biodiversity;*
I enjoyed the experience.
Comments: *Thank you;* *It was wonderful and beautifully situated with wonderful service from coordinators;* *I thoroughly enjoyed the experience. I learnt a lot and met some great people. The atmosphere of the summer school was friendly and inclusive;* *Overall a nice experience and nice to meet researchers/students alike looking at a wide variety of taxonomic groups/levels;* *It was nice, I was very much welcomed by people I didn't know before;* *The park rangers were very kind and helpful;* *The mix of nationalities and backgrounds made it a very stimulating group of people;* *I once went to a summer school as a student and it was very interesting to participate being on the other side. It is a unique opportunity to mix students and researchers in a different environment;*
I would recommend the next Summer School to my colleagues.
Comments: *I have already recommended participation to a colleague at the national Museum of Wales;*
Additional comments?
I see a good organisation giving life not only to young students, but to tired and frustrated old taxonomists, who also need hope. *A huge thanks to Kim and her colleagues for an extremely well organized summer school. It was a pleasure to be involved. A fantastic experience. Can I apply for next year's as well?*
Specific questions for field researchers
How do you rate the lab facilities?

What can be improved? *More stereoscopic microscopes;* *There were some brief problems with electricity in France and the available microscopes were slightly limiting;* *Not much could be improved: quite good resources were available;*
How do you rate the organisation of the field work?
What can be improved? *Maybe the field work could be organized more in terms of collecting data for an ATBI, so that less explicit emphasis is placed on individual taxonomic groups;* *Nothing can be improved that running the course again wouldn't improve – Simple things that can't be helped, like not having direct access to labs (a 10 min car ride was required in Italy) could be improved upon, but this depends on local logistics;* *Organize for example the entomological field work according to pre-defined topics (a target a topic and an outcome) in order to achieve more depth during the classes;* *It would be good to know what field work means for the other colleagues and how they want to organize it (beforehand);* *Students should be reminded that it gets cold at higher altitudes;* *Avoid theory courses before field work when it is important to be in the field early (such as in mountain climates);* *A longer preparation would improve the efficiency of the field work;*
The balance between field work and lab work was adequate for my needs
Comments: *There was enough time to collect material for teaching, but obviously too short to display some real scientific results to the students;* *We chose the balance ourselves, so not applicable;*
Within the context of the summer school, organizing field work with taxonomists from disciplines different to mine was challenging
Comments: *I had no problems at all and the interaction was fruitful;* *Yes, it was challenging – but it was a worthwhile challenge;* *It was easy to agree with colleagues, but we lost some time;* *Based on participation in the 2nd week only, I would suggest to broaden the disciplines related to field work to include, for example, ornithology* *We easily succeeded in combining our work;*

8.3. Upcoming WP7 initiative concerning a manual on field work techniques

Students and teachers were asked to answer a few questions concerning an upcoming initiative of WP7.

A compilation of the feedback received is given below:

A manual on field work methods suitable to ATBI+M sites is in preparation and various researchers will contribute manuscripts. It will describe standards, techniques and tools for both rapid and repeated ATBI+M programmes, for application on ATBI+M sites world wide.

The manual will also be available for future students and lecturers of the EDIT Summer School, so you could help us greatly by answering the following questions and add any other relevant comments:

We plan to include chapters on the following topics:

- Light trapping methods
- Malaise and flight-interception trapping (*Patrick Grootaert could provide text on this subject matter*)
- DNA barcoding
- Litter and soil sampling
- Vegetation recording techniques

- Acoustic recording
- Recording techniques in marine environments

a) What additional information would you expect to find in such a field work techniques manual? (number between brackets = number of people who suggested this topic)

- *Collection and preservation of samples (for molecular and non-molecular research purposes, for plants and animals): conservation and organization, when to start a collection, for which organisms and why, conservation methods, sample preparation and labelling, how to colleact and prepare herbarium specimens for plants …sample storage: in general /depending on group of organisms / in the field (7);*
- *Methods to survey birds and (small) mammals: Longworth traps, etc (5);*
- *Statistical analysis methods: for monitoring; indication of sample size requirements, outline of most common methods used) (5);*
- *Habitat: Site selection criteria for representative data - An introductory chapter on remote sensing as a tool for a rapid assessment of habitat features - Surveying techniques (3);*
- *Key to orders of invertebrates and plants (3);*
- *Georeferencing and GPS handling (3);*
- *Canopy sampling techniques (Canopy fogging and tree trunk fogging) (3);*
- *Legal aspects of field work (permits etc) (2);*
- *Basic practical molecular work (how to get the right primer) (2);*
- *Recording techniques in aquatic (fresh/salt) environments (2);*
- *Pitfall traps (2);*
- *Others (1):*
    - *Methods for sampling Orthoptera;*
    - *Discussion of the suitability of different methods;*
    - *Examples of cyber keys;*
    - *Ethical aspects of field work (even if it is legal it may not be OK);*
    - *The importance and possibilities of field work;*
    - *Floristic recording techniques (this is not the same as vegetation recording techniques!);*
    - *A general chapter on Insect collection techniques (and perhaps for each group of organisms a separate chapter?), which would include: Passive and Active Light trapping methods, Pitfall traps, Yellow pans, Different kinds of netting, Using a pooter, Killing jars and Ethyl acetate/ethanol/etc – Insect preservation and inventory (museum techniques);*
    - *Freshwater habitats (rivers, lakes and waterways);*
    - *Mist netting;*
    - *Aspects of behaviour (such as the mating techniques of flies, which was an interesting topic in the summer school);*
    - *Measuring leaf (object) shape technique (Fabienne Van Rossum could provide text on this subject matter);*

b) Which taxonomic methods are not described well in the literature and should be included in the manual? Please describe in detail.

- *Potential areas not included in the manual are indicated in the comments given to the question above;*
- *General remark: Obviously there is a lot to say about systematics from a historical perspective: origin of taxonomy, how to combine characters in modern approaches or how to analyse such combinations - a difficult question depending on what is expected from such a manual;*

9. Continuation

- Second EDIT Summer School 'Modern Taxonomy and Field Work': a Second EDIT Summer School is planned to take place in the Gemer region in Slovakia in August 2009.
- Publication: Ultimately we aim to organize the publication of a book detailing the information disseminated during the First and Second EDIT Summer Schools for Modern Taxonomy and Field Work. Via a peer review system, whereby the lecturers involved in the Fisrt and Second EDIT Summer Schools will review each others articles, the syllabus and student presentations (rewritten in text form) will be included in this publication.

10. Suggestions to improve future summer schools

1. **Organization:** Introduce all teachers upon arrival; provide student participants with each others' email addresses before the start of the summer school to allow travelling together
2. **Organization:** Provide a detailed schedule and confirm the following day's activities each preceding evening: more feedback required from training providers before and during the summer school on their intentions and work plans; stricter follow-up required by organisation; provide a tighter schedule with more activities and more clearly defined rest periods
3. **Organization/Accommodation:** Aim to have accommodation for students and teachers at the same location or within walking distance to increase informal interaction possibilities
4. **Organization/Materials:** Provide name tags
5. **Organization/Timing:** Hold the Summer School earlier (preferably in August): better time for insect sampling and botanical sampling (ideal would be spring, however, most students are occupied with exams in Spring)
6. **Organization/Curriculum:** A closer collaboration should be envisaged with the ATBI+M activities of WP7. This could be the red line in the summer school, that which gives the storyline around which the other courses are structured
7. **Curriculum:** Better spread and balance between large taxonomic groups studied (e.g. plants vs. animals; vertebrates vs. invertebrates; molecular vs. traditional)
8. **Curriculum:** For each larger taxonomic group studied (e.g. insects, angiosperms, birds…) an introductory class should be given (main characteristics used for identification, sampling, etc)
9. **Curriculum:** A class (or a few classes) should be given specifically devoted to local/regional fauna, flora and geomorphology
10. **Curriculum:** A basic class (e.g. on nomenclatural rules) could serve as an introduction to more in depth discussions, where the level of complexity attained depends on the feedback and interaction with the students
11. **Curriculum:** More open discussions on current problems in taxonomy and how these are being tackled

Annex

A1. Travel Guidelines:
(a) Training providers

Travel Guidelines[1] for the EDIT Summer School 2008 'Modern Taxonomy and Field Work'

(Training providers)

When booking flights and travelling, please use the following routes:

Travel Route for participants who arrive between 31/08/2008 – 06/09/2008

1. Arrival route: Flight from your home country[2] to Torino (Italy)
2. Train travel from Torino to Cuneo
3. Pick-up at Cuneo by the organizers at fixed time (will be communicated later) and car travel to the location of the summer school
4. Departure route: Cuneo-Torino-Home

Travel Route for participants who arrive between 07/09/2008 – 14/09/2008

1. Arrival route: Flight from your home country to Nice (France)
2. Train travel from Nice to Tende
3. Pick-up at Tende by the organizers at fixed time (will be communicated later) and car travel to the location of the summer school
4. Departure route: Tende-Nice-Home (unless you arrived via Torino, see departure above)

This document provides general guidelines for arranging your travel and getting reimbursed. These guidelines should be followed closely.
1

1. EDIT will pay per diem and accommodation for invited participants to arrive on the day before the event and leave on the day following the event. Per diem will be calculated on the basis of the number of days.
2. If participants wish to extend their stays (for example, to include a Saturday evening) in order to get a cheaper airline ticket, EDIT will refund the extra hotel costs and per diem only if the total cost is cheaper than a travel arrangement limited to the duration of the event. Such longer stays require prior approval from EDIT and can only be covered if the participant can prove that the extra per diem and hotel costs were saved elsewhere, such as a cheaper flight fare.

[1] *Adapted from the GBIF travel guidelines*

[2] *Country where the European University or Research Institute is located with where you work or with which you are affiliated*

3. EDIT will provide a per diem of 60€ per day, however, the per diem rate will be reduced by 15% when breakfast is provided, by 30% when lunch is provided and by 30% when dinner is provided.

4. EDIT advises participants to purchase their own travel insurance to cover sickness, loss of baggage, etc. Participants must ensure to have a valid travel health insurance for the period of travelling and, upon arrival, provide a certificate from a medical authority stating that they can safely stay in higher altitude areas.

5. EDIT will only refund flight tickets at the level of economy class non-refundable fares (apex[3]). If this is not available, for instance, because a weekend stay is not possible, cross-apex or similar should be considered. If more expensive tickets are used, the participant may receive only a partial refund.

6. EDIT does not reimburse extra costs that arise later from changing the flight schedule on behalf of the participant.

7. If a participant has ordered a ticket but later for various reasons wishes to cancel participation in the Summer School, EDIT will not refund the tickets. Only in the case of documented illness (i.e. certified by a physician) that prevents participation, will EDIT refund the cost of the ticket.

8. EDIT will refund the cost of public transport between the participant's lodging and the airport, and between the airport and the venue hotel or pick-up point. Other transportation expenses during the training event, meeting etc. will not be covered since these are included in the per diem.

9. Travel by train or boat will be covered in 2nd class or equivalent. Travel by passenger car may be covered at the rate of 0.22€ per km (2006 rate), but only if this is cheaper than other means of transportation, and if approved in advance by EDIT.

10. Reimbursement for travel should be claimed within one month, and no later than 3 months after returning from the EDIT event.

The following items must be attached: a) Stub of the original flight ticket, b) stubs of boarding passes, c) original tickets or receipts for transportation between residence and airport and between airport and hotel/pick-up point. http://www.atbi.eu/summerschool/files/travel%20and%20perdiem%20reimbursement_EDIT_SummerSchool2008v4.xls

11. If the home organization/university of the participant has paid for the travel expenses, and not the participant himself/herself personally, please contact EDIT for procedures on reimbursement.

12. In exceptional cases, when a participant is not able to cover the costs in advance and to be reimbursed later, EDIT may be able to issue flight tickets and hand over the per diem at the event. In this case, the participant should contact EDIT at kim.jacobsen@africamuseum.be to request this pre-payment at least 4 weeks in advance, and provide adequate justification.

[3] APEX= **A**dvance **P**urchase **EX**cursion. This is the standard discount ticket available from airlines and most regular travel agents. Depending on the airline, these tickets require a seven to thirty day advance purchase, a minimum stay of usually seven days, and a maximum stay of thirty or sixty days, sometimes longer. Round trip is required, and fees are usually charged for date changes or cancellation (source= http://www.artoftravel.com/04cheapflights.htm)

(b) Students

Travel Guidelines[4] for the EDIT Summer School 2008 'Modern Taxonomy and Field Work'

(students)

When booking flights and travelling, please use the following routes:

5. Arrival route: Flight from your home country[5] to Torino (Italy)
6. Train travel from Torino to Cuneo
7. Pick-up at Cuneo by the organizers at fixed time (will be communicated later) and car travel to the location of the summer school
8. Departure route: Cuneo-Torino-Home

This document provides general guidelines for arranging your travel and getting reimbursed. These guidelines should be followed closely.

13. EDIT advises participants to purchase their own travel insurance to cover sickness, loss of baggage, etc. Participants must ensure to have a valid travel health insurance for the period of travelling and, upon arrival, provide a certificate from a medical authority stating that they can safely stay in higher altitude areas.
14. EDIT will only refund flight tickets at the level of economy class non-refundable fares (apex[6]). If this is not available, for instance, because a weekend stay is not possible, cross-apex or similar should be considered. If more expensive tickets are used, the participant may receive only a partial refund.
15. EDIT does not reimburse extra costs that arise later from changing the flight schedule on behalf of the participant.
16. If a participant has ordered a ticket but later for various reasons wishes to cancel participation in the Summer School, EDIT will not refund the tickets. Only in the case of documented illness (i.e. certified by a physician) that prevents participation, will EDIT refund the cost of the ticket.
17. EDIT will refund the cost of public transport between the participant's lodging[7] and the airport, and between the airport and the venue hotel or pick-up point.
18. Instead of flying, travel by train or boat will be covered in 2nd class or similar. Instead of any of these, travel by passenger car may be covered at the rate of 0.22€ per km (2006 rate), but only if this is cheaper than other means of transportation, and if approved in advance by EDIT.

[4] *Adapted from the GBIF travel guidelines*

[5] *Country where the European University or Research Institute is located with where you work or with which you are affiliated*

[6] APEX= **A**dvance **P**urchase **EX**cursion. This is the standard discount ticket available from airlines and most regular travel agents. Depending on the airline, these tickets require a seven to thirty day advance purchase, a minimum stay of usually seven days, and a maximum stay of thirty or sixty days, sometimes longer. Round trip is required, and fees are usually charged for date changes or cancellation (source= http://www.artoftravel.com/04cheapflights.htm)

[7] In the country where your University/Institute is located

19. Reimbursement for travel should be claimed within one month, and no later than 3 months after returning from the EDIT event.

The following items must be attached: a) Stub of the original flight ticket, b) stubs of boarding passes, c) original tickets or receipts for transportation between residence and airport and between airport and hotel/pick-up point. http://www.atbi.eu/summerschool/files/travel%20and%20perdiem%20reimbursement_EDIT_SummerSchool2008v4.xls

20. If the home organization/university of the participant has paid for the travel expenses, and not the participant himself/herself personally, please contact EDIT for procedures on reimbursement.

21. In exceptional cases, when the trainee or participant is not able to cover the costs and be reimbursed later, EDIT may be able to issue flight tickets and hand over the per diem at the event. If this is the case, the traveller should send a separate e-mail to kim.jacobsen@africamuseum.be to request this pre-payment at least 4 weeks in advance, and provide adequate justification.

22. Local transport, food and accommodation will be covered by EDIT.

A2. Promotional flyer

EDIT Summer School 2008

'Modern Taxonomy and Field Work'

www.atbi.eu/summerschool

Photo: A.Turpaud, 2007

The aim of the Summer School is to train students in "Best Practice" of field sampling and various aspects of taxonomic research to be applied in biodiversity and conservation biology research. The Summer School will focus on disseminating practical taxonomic experience with theory lectures to give an in-depth understanding of the current state of taxonomic research and its broad applicability in other scientific disciplines and non-scientific initiatives.

The EDIT Summer School 2008 is open to students that have recently finished their MSc. level or are in an early stage of their PhD research in a biological discipline. The Summer School will be held in the late summer of 2008 (31/08-14/09), coupled with the ongoing "All Taxa Biodiversity Inventory and Monitoring (ATBI+M)" in the French/Italian Alpine nature reserves of Mercantour and Alpi Marittime. ATBI+M activities are part of a global research effort to document spatio-temporal dynamics in biodiversity of conservation priority areas.

We are currently accepting applications from professional taxonomists and training providers (topics: biodiversity, conservation biology, field sampling methodologies…). Teachers (and students) affiliated with (1) an EDIT institution or (2) a European University/Research Institute can apply to participate. How? By visiting the website and filling in the online application form (please check that you meet the eligibility criteria before you apply). The Call for Students is open until June 1st 2008. The Call for training providers is open until all positions have been filled.

A3. List of participants

	Name (Student)	University/Institute	Nationality	Gender
1	Appelhans, Marc	Universiteit Leiden & NHN, Netherlands	German	Male
2	Aydin, Zeynep	University of Dicle, Turkey	Turkish	Female
3	Brzeska, Magdalena	University of Gdansk, Poland	Polish	Female
4	Cerrato, Cristiana	Gran Paradiso National Park, Italy	Italian	Female
5	Collis, Mary-Anne	University of Exeter, UK	British	Female
6	Corazza, Marcello	University of Bologna, Italy	Italian	Male
7	French, Veronica	University College Cork, Ireland	Irish	Female
8	Houchin, Robine	NHN, Netherlands	Dutch	Female
9	Javier, Laura Hernandez	University of la Laguna & CSIC/MNCN, Spain	Spanish	Female
10	Jovanovic, Olga	Technical University of Braunschweig, Germany	Croatian	Female
11	Kundrata, Robin	Palacky University Olomouc, Czech Republic	Czech	Male
12	Martin, Rebecca	University College Cork, Ireland	Irish	Female
13	Martinez, Karen	Université de Genève, Switzerland	Swiss	Female
14	Nishimura, Deise	University of Exeter, UK	Brazilian	Female
15	Nitschke, Norma	Friedrich-Schiller-University Jena, Germany	German	Female
16	Olorunleke, Feyisara	Ugent & KULeuven, Belgium	Nigerian	Female
17	Ozan, Martina	University of Helsinki, Finland	Slovakian	Female
18	Piotrowicz, Malgorzata	University of Gdansk, Poland	Polish	Female
19	Rocchia, Emanuel	University of Pavia, Italy	Italian	Male
20	Veijalainen, Anu	University of Turku, Finland	Finnish	Female
	Name (Teacher)	**Organization/University/Institute**	**Type**	**Gender**
1	Archambeau, Anne-Sophie	GBIF – MNHN, France	Theory	Female
2	Breman, Floris	RMCA – RBINS, Belgium	Theory	Male
3	De Vere, Natasha	National Botanic Garden of Wales, UK	Theory	Female
4	Enghoff, Henrik	Natural History Museum of Denmark, Denmark	Theory	Male
5	Fontaneto, Diego	Imperial College of London, UK	Field Work	Male
6	Fradin, Hélène	EDIT – MNHN, France	Theory	Female
7	Godefroid, Sandrine	NBGB, Belgium	Field Work	Female

8	Grootaert, Patrick	RBINS, Belgium	Field Work	Male
9	Hayward, Alex	University of Oxford, UK	Field Work	Male
10	Hauser, Christoph	SMNS	Theory	Male
11	Kathirithamby, Jeyaraney	University of Oxford, UK	Field Work	Female
12	Kuntzelmann, Elise	EDIT – MNHN, France	Theory	Female
13	Manktelow, Mariette	University of Uppsala, Sweden	Theory	Female
14	McMahon, Dino	University of Oxford, UK	Field Work	Male
15	Meganck, Bart	RMCA, Belgium	Theory	Male
16	Patiny, Sébastien	University of Gembloux, Belgium	Field Work	Male
17	Pavan, Gianni	University of Pavia, Italy	Field Work	Male
18	Raspé, Olivier	NBGB, Belgium	Theory	Male
19	Van de Velde, Isabella	RBINS, Belgium	Theory	Female
20	Van Rossum, Fabienne	NBGB, Belgium	Field Work	Female
21	Vanraepenbusch, Jozef	Euroguidance, Flemish department for Guidance and Training, Belgium	Theory	Male

A4. Inventory of equipment

All-in portable microscope
(http://www.microbiotests.be/equipment/all-in%20portable%20microscope.pdf)

Inventory of Equipment of the EDIT Summer School							
Type	**Brand and Reference**	**Serial number**	**Weigh t (kg)**	**Qty**	**Purchase year**	**Purchase price excl VAT reductions and recupel**	**Missing? Comments**
Microscope	Leica ES2 with 10x eyepieces	5489061	5,13	1	2008	541	
Microscope	Leica ES2 with 10x eyepieces	5489005	5,13	1	2008	541	
Microscope	Leica EZ4 Without eyepieces	5541750	4,95	1	2008	1126	
Microscope	Leica EZ4 Without eyepieces	5541732	4,95	1	2008	1126	
Microscope	Leica EZ4 Without eyepieces	5541757	4,95	1	2008	1126	
Microscope	Eyepiece 10X/20 adjustable E Series	na	0,54	6	2008	504	
Microscope	Eyepiece 20X/12 adjustable S-A. E-Series	na	0,36	6	2008	1020	
GPS	Garmin Etrex Legend HCx	16C108616		1	2008	137,46	
GPS	Garmin Etrex Legend HCx	16C108617		1	2008	137,46	
GPS	Garmin Etrex Legend HCx	16C108618		1	2008	137,46	
GPS	Garmin Etrex Legend HCx	16C108619		1	2008	137,46	
GPS	Garmin Etrex Legend HCx	16C108620		1	2008	137,46	

GPS	Garmin Etrex Legend HCx	16C108621		1	2008	137,46	
Miscellaneous	Kit Basic Care (A.S. Adventure)	na		1	2008	12,5	
Miscellaneous	Rechargable batteries			4	2008	12,88	
Miscellaneous	Powerbank rapid (battery recharger)			1	2008	33,9	
Miscellaneous	Powerbank recycko (battery recharger)			1	2008	24,9	
Entomology	25m electrical cable			2	2008	24,5	
Miscellaneous	Extension cord (Blocparab3x16A)			2	2008	34,98	
Entomology	Light fitting			1	2008	1,49	
Entomology	Light fitting E27 (glad fitting)			1	2008	1,69	
Entomology	Light fitting E27 (halfdraaifit)			2	2008	3,98	
Entomology	Lamp holder E27 white			1	2008	1,79	
Entomology	Energy saving light bulbs Softone 20			2	2008	17,98	
Entomology	Vynckier platte stekkers			2	2008	3,99	
Lab	Art 11,290 Coverslips 18x18 per 100			6	2008	9,84	
Lab	Art 12,280 Slides per 50			6	2008	11,34	
Entomology	Art 60,601 Beetle net round model			2	2008	43,7	
Entomology	Art 62,011 Pooter large model			4	2008	40,16	one is broken
Printed Material	Syllabus			45	2008	522	Distributed to participants
Microscope	All-in portable microscope			11	2008	1980	
DELL Laptop	Latitude D830 N-Series: Intel Core 2 Duo T7250 (2.0GHz, 800MHz, 2MB), Ubuntu Linux OS	service tag: 994YT3J		1	2008	528	
DELL Laptop	Latitude D830 N-Series: Intel Core 2 Duo T7250 (2.0GHz, 800MHz, 2MB), Ubuntu Linux OS	service tag: 294YT3J		1	2008	528	
DELL Laptop	Latitude D830 N-Series: Intel Core 2 Duo T7250 (2.0GHz, 800MHz, 2MB), Ubuntu Linux OS	service tag: C94YT3J		1	2008	528	
DELL Laptop	Latitude D830 N-Series: Intel Core 2 Duo T7250 (2.0GHz, 800MHz, 2MB), Ubuntu Linux OS	service tag: 194YT3J		1	2008	528	
DELL Laptop + USBStick	Latitude D830 N-Series: Intel Core 2 Duo T7250 (2.0GHz, 800MHz, 2MB), Ubuntu Linux OS	service tag: B94YT3J		1	2008	544	

DELL Laptop + USBStick	Latitude D830 N-Series: Intel Core 2 Duo T7250 (2.0GHz, 800MHz, 2MB), Ubuntu Linux OS	service tag: 894YT3J		1	2008	544	
IT equipment	DELL M209X Micro Portable Projector - European	REF/ 210-20644		1	2008	769,96	
IT equipment	Mice: Dell Optical USB (5 buttons scroll)	REF/ 570-10357		6	2008	30	
Entomology	Plastic pots (white pans)			33	2008	donated by RBINS	
Printed Material	EU documentation			na	2008	donated by EU documentation centres	
Entomology	Insect Guides			3	2008	81,11	
Miscellaneous	EDIT Merchandise			na	2008	donated by WP1 - MNHN	
Entomology	Larger Plastic pots with lid			4	2008	donated by RBINS	
Entomology	Smaller plastic pots with lid			21	2008	donated by RBINS	
Lab	Plastic pipettes			na	2008	donated by RMCA	
Botany	50m cord (orange)			na	2008	8,1	
Miscellaneous	Adaptors (Italian socket/International socket)			1/5	2008	44,49	

A5. Photographs of the First EDIT Summer School 2008

The photographs of the First EDIT Summer School 2008 were made available on the Internet after consultation and consent of all participants and photographers :

http://picasaweb.google.com/editsummerschool/EDIT_SummerSchool_2008?authkey=nFx0KydrvaA#

In consultation with the photographers, a Creative Commons BY-NC-SA license was attached. See :

http://creativecommons.org/licenses/by-nc-sa/2.0/be/legalcode.nl
http://creativecommons.org/licenses/by-nc-sa/2.0/be/legalcode.fr

A6. Confidential: Report of student feedback to individual courses

This report is confidential between the organizers and the lecturers – not included in this general report.

A7. Detailed daily organization of the First EDIT Summer School (Mission report)

Mission Report
EDIT WP8
EDIT Summer School 2008
'Modern taxonomy and Field Work'
29/08 – 15/09 2008

Friday 29/08/2008:
10h21: Departure from Brussels Midi to CDG, Paris
13h20: Departure Paris to Torino
15h50: Departure Torino (Caselle Airport) to Torino (Porto Nuova train station)
17h00: Departure Torino (Porto Nova) to Cuneo (travel time: 1h)
19h00: Departure from Cuneo with rental car to Trinita di Entracque (Locanda del Sorriso)
20h30: Arrival at Locanda del Sorriso

Saturday 30/08/2008:
10h30: Meeting with Marta De Biaggi at the Park authorities Field Station in Entracque: Discussed logistics of summer school; Fedex shipment had not arrived as expected. Estimated Date of Arrival was 01/09/2008 at 20h00

Lunch with Marta and Bart Meganck in Valdieri on the way to Borgo San Dalmazzo (for shopping): Purchased food, coffee, milk, tea and two thermoses for the coffee breaks; Purchased equipment for the Botany field work; Arranged set-up of the classroom and teaching facilities at the field station

Sunday 31/08/2008:
10h00: Departure for Eurobus (car rental company in Cuneo) to pick up vehicle-nr1 (9 passenger)
13h00 – 15:30: Pick up first group of students at Cuneo station – two students arrived 1h late; return to Locanda to drop off students
16:00-17h00: Pick up second group of students and Mariette Manktelow with vehicle-nr2 (9 passenger) – some late arrivals and one student who did not arrive (this person did not participate due to medical reasons); return to Locanda to drop off students, return to Balma Meris to drop off teacher
20:00-21:30: Pick up last group of students and Henrik Enghoff with vehicle-nr3 (9 passenger) and vehicle-nr4 (5 passenger); return to Locanda to drop off students
21:30-22:30: Dinner with Henrik Enghoff in Valdieri; return to Balma Meris to drop off Henrik

Monday 01/09/2008:

09:00: Departure from Locanda del Sorriso with the students to the Field Station for theory classes (Christoph Häuser, Mariette Manktelow and Henrik Enghoff arrived from Balma Meris with own transport)
09:30: Christoph Häuser gave a talk on All Taxa Biodiversity Inventories and Monitoring (WP7, EDIT and the context of the Summer School)
10:45: Coffee Break
11:00: Henrik Enghoff gave a talk on the Introduction to Taxonomy
12:30-13:45: Lunch Break
14:00: Mariette Manktelow gave a talk on the History of Taxonomy
15:30: Luca Giraudo gave a talk about the activities of the regional park Parco Naturale delle Alpi Marittime
Due to bad weather the afternoon walk was cancelled – students were given the opportunity to walk around the surrounding area
18:00-19:00: Part one of the video about the Santo 2006 expedition was shown
19:00: Departure of students to Locanda and teachers to Balma Meris

20:30 – 21:30: Pick up of Sandrine Godefroid, Fabienne Van Rossum, Alex Hayward and Dino McMahon at the Cuneo station – stop for dinner (for Dino, Alex and Kim – Fabienne, Sandrine and Marta skipped dinner)
22:00: Drop off of Fabienne, Dino, Alex and Sandrine at Balma Meris
22:30: Kim returns to Locanda

Tuesday 02/09/2008:
08:30: Departure of Henrik and Mariette to Cuneo (Marta)
09:00: Departure from Locanda del Sorriso (Bart and Kim) with the students to the Field Station for theory classes
09:30-15:30: Bart Meganck gave a course on Introduction to geo-referencing: how to use a GPS and maps for the collection and checking of geo-referenced data

09:30-afternoon: a parallel visit to focal site 2a & 2b (Vallone di Brocan & Vallone di fenestrelle) was organized for Alex, Dino, Sandrine and Fabienne

(Coffee break and lunch breaks at usual time)
(Diego Fontaneto and Jeyaraney Kathirithamby arrived at Cuneo at 13:00 – they had lunch with Marta in Valdieri on the way back to the field station at Entracque)

15:30- afternoon: practical exercises with Bart in the field
(Diego and Jeyaraney were shown what equipment was available for field work)

Students were randomly divided into 3 groups and given the topics for their student presentations (to be delivered at the end of the Summer School):
Group 1: Modern Taxonomy
Group 2: Geo-referencing and sampling methods
Group 3: Biodiversity and the environment

18:00-19:00: Part two of the video about the Santo 2006 expedition was shown

19:30- evening: Social dinner with the teachers and students at Balma Meris
Evening: brief discussion with the field researchers about practical organisation.

Wednesday 03/09/2008:
All students followed a theory class with Diego Fontaneto about Rotifera in the morning. Afterwards the students were split into two groups.
Rotifera: Group 1 followed field work with Diego Fontaneto at the Piastra dam and along the riverside.
Botany: Group 2 followed Sandrine Godefroid and Fabienne Van Rossum to make a herbarium in the surrounding area
After lunch group 1 and group 2 switched.
Jeyaraney, Alex and Dino explored other potential sampling sites (the Juniperus Reserve) and set-up traps in preparation for field work with the students on Thursday and Friday

Afternoon: Informal meeting with Christoph Häuser to discuss possibilities, challenges and ideas for the next EDIT Summer School 2009 in the Gemer region in Slovakia.
Wednesday evening Christoph Häuser and Daniel Bartsch took along two interested students to assist and learn during their night trapping of moths and other insects.

Thursday 04/09/2008:
Christoph Häuser and Daniel Bartsch depart (own transport)
Students were split into two groups.
Strepsiptera: Prior to field work a theory talk was given to Group 1 by Jeyaraney Kathirithamby about Strepsiptera. Group 1 followed field work with Alex Hayward, Dino McMahon and Jeyaraney Kathirithamby at the Juniperus Reserve and the Piastra Dam. Collections were also made from the light- and malaise traps next to the field station. Prior to lab analysis another class was given about identification of the specimens found. Samples were then analyzed in the lab in the afternoon.
Botany: Group 2 followed field work and field lectures with Sandrine and Fabienne at focal sites 2a & 2b.

Friday 05/09/2008:
Group 1 and Group 2 switched on Friday. The same activities were carried out with the alternate group.
Jeyaraney was dropped off at Cuneo train station in the afternoon.

Saturday 06/09/2008:
Departure of Alex, Dino, Sandrine & Fabienne
Students had a day off

Activities: Hiking or visit to Cuneo. One student chose to visit Cuneo (lunch with Kim, Marta and Bart), all other students went hiking (packed lunches).
21h30: A night visit to a "Special Protected Area" (EU, Natura 2000) cave was organized for the students (Marta)

Arrival of Floris Breman (teacher), Olivier Raspé (teacher) and Natasha de Vere (teacher) in France.

Sunday 07/09/2008:
Departure of Bart from Cuneo
Departure of all students, Kim & Marta for France
12h30: Lunch at "La Margueria" (Pizza restaurant) in Tende: all students, Natasha de Vere (teacher), Kim & Marta
15h00: Visit to Musée des Merveilles – meeting with Gianni Pavan (teacher)
17h00: Pick up of Jozef Vanraepenbusch (teacher), Patrick Grootaert (teacher) & Isabella Vandevelde (teacher/organisation) at the Tende train station
17h30: Departure for Neige et Merveilles (St Dalmas de Tende)

Monday 08/09/2008:
09:00: Natasha de Vere gave a talk on Biodiversity
10:30: Coffee Break
11:00: Floris Breman and Olivier Raspé gave a talk Introduction to Molecular Taxonomy (part one)
12:15: Lunch break
13:30: Floris Breman and Olivier Raspé gave a talk Introduction to Molecular Taxonomy (part two)
15:00: Jozef Vanraepenbusch gave a talk about European Mobility Schemes (Erasmus, Leonardo…)
16:30: Isabella Vandevelde gave a talk on Job opportunities for scientists at the European Union
Evening: Pick up of Sébastien Patiny at the train station in Tende

Tuesday 09/09/2008:
Departure of Jozef, Natasha, Olivier and Floris
08:30: Patrick Grootaert gave a talk entitled Global Biodiversity and the rain forests: a challenge for the taxonomist
10:00: Gianni Pavan gave a talk on Bioacoustics
Students were split into three groups
General Entomology and Diptera (Dolichopodidae): Group 1 followed field work with Patrick Grootaert (sometimes accompanied by Isabella Vandevelde). Afternoon analysis of the sampled specimens and identification of the major Insect orders found.
Apoidea-Apiformes (Bees): Group 2 followed field work with Sébastien Patiny. Afternoon analysis of the samples (division into morphotypes and mounting in insect boxes).
Bioacoustics: Group 3 followed field work with Gianni Pavan. Samples of sounds made. Sound analysis was demonstrated in the afternoon.

17:00: Sébastien Patiny gave a talk entitled Introduction to the taxonomy of Bees
21:00: Organized by Neige & Merveilles: Talk about the History of La Minière by a manager of Neige & Merveilles

Wednesday 10/09/2008:
08:30 Patrick Grootaert gave a talk entitled Taxonomy of long-legged flies or dolichopodids (insecta, Diptera, Dolichopodidae)
Group 1, Group 2 and Group 3 switched. The same activities were carried out with alternate groups.
21:00: Organized by Neige & Merveilles: Talk about the Vallée des Merveilles rock-engravings

Thursday 11/09/2008:
08:30: Patrick Grootaert gave a talk entitled Using Taxonomy: Collections – faunistics – databases – Red Data books – site quality assessment
Group 1, Group 2 and Group 3 switched. The same activities were carried out with alternate groups.
Afternoon: Arrival of Hélène Fradin (teacher), Elise Kuntzelmann (teacher) and Anne-Sophie Archambeau (teacher)
21:00: Organized by Neige & Merveilles: Talk about the National Parc du Mercantour by a park ranger

Friday 12/09/2008:
Departure of Sébastien Patiny
Morning:
Bioacoustics: summary class and sound analysis with Gianni
Entomology: lab analysis with Patrick
Afternoon:
Pack-up of lab equipment to prepare Fedex shipment (organisation)
Time set aside for the students to prepare their student presentations

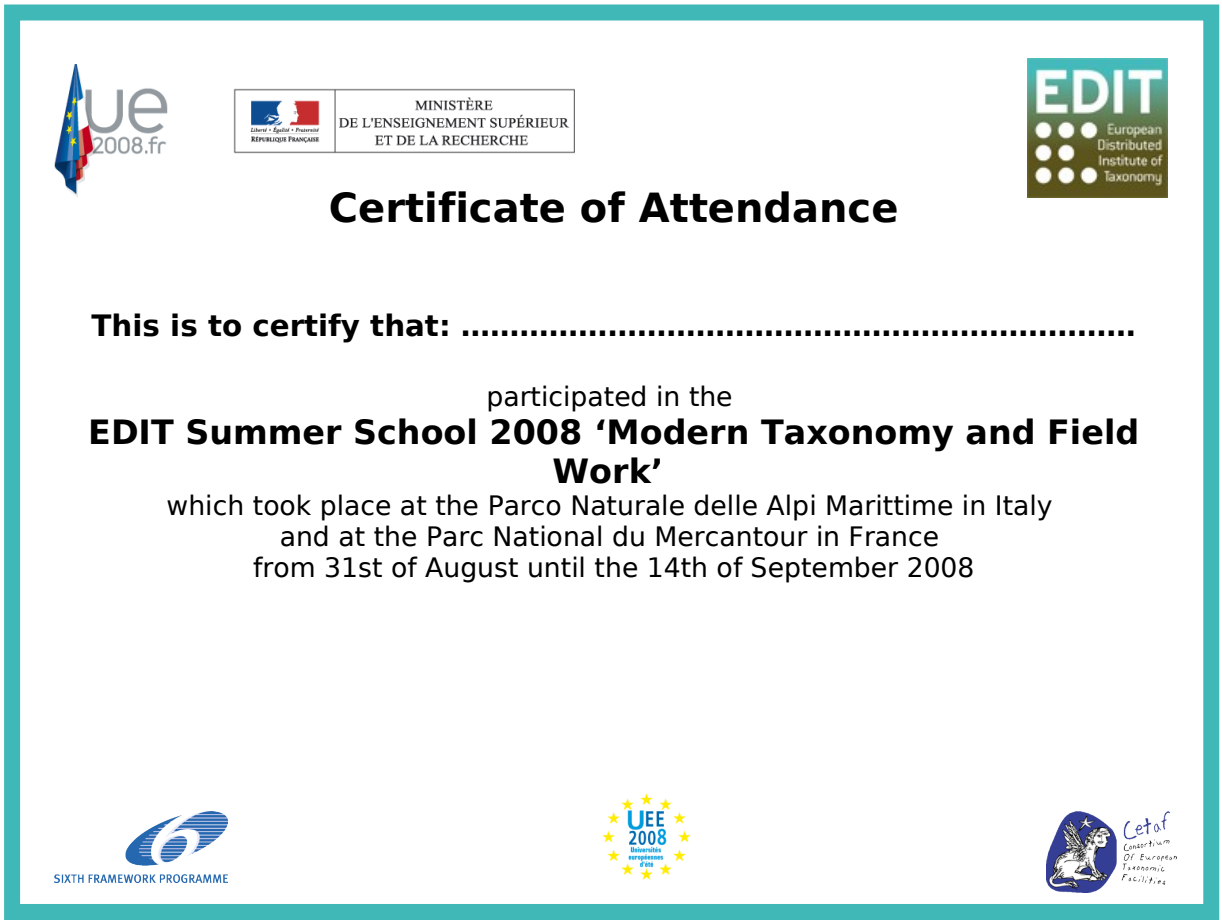
Saturday 13/09/2008:
09:00: Student presentations: Modern Taxonomy
10:00: Student Presentations: Geo-referencing and Sampling methods
11:00: Student presentations: Biodiversity and the environment
13:30: Departure of Patrick, Isabella, Gianni and two students
Transfer of material to be shipped down to the office of the National Park in Tende (organisation)

Sunday 14/09/2008:
Drop off of one student at the St Dalmas de Tende- and five students at the Tende- train station. Continued with the remaining students back to Cuneo
11:00: Returned the cars to Eurobus (car rental company)
13:00: Departure of all students from Cuneo
14:20: Dropped off Marta at the Field station of the Parco delle Alpi Marittime so that she could pick up her car
17:30 Checked into Hotel Superga in Cuneo

Monday 15/09/2008:
09:00: Dropped off the 5-passenger car at Eurobus
10:15: Was dropped off by Eurobus at the Cuneo train station
10:45: Departure for Torino (via Fossano)
12:45: Departure for Torino airport: was told by Air France that the baggage handlers were on strike: rerouted to Rome
16:15: Departure to Rome (1h delayed)
22:20: Departure to Brussels (1h30 delayed)
Arrival at Brussels airport 00:30 (16/09/2008)

A8. Certificate of Attendance

A certificate of attendance was sent to each student who participated in the EDIT Summer School 2008.



MINISTÈRE
DE L'ENSEIGNEMENT SUPÉRIEUR
ET DE LA RECHERCHE

EDIT European Distributed Institute of Taxonomy

Certificate of Attendance

This is to certify that: .....

participated in the

EDIT Summer School 2008 'Modern Taxonomy and Field Work'

which took place at the Parco Naturale delle Alpi Marittime in Italy
and at the Parc National du Mercantour in France
from 31st of August until the 14th of September 2008

SIXTH FRAMEWORK PROGRAMME

UEE 2008

Cetaf Consortium Of European Taxonomic Facilities

Report compiled by Kim Jacobsen (RMCA),
coordinator of the First EDIT Summer School.