



Network application: CII-AT-0038-02-0607

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4.2.1. Physical science

CEEPUS II Application 2006/2007

Objectives

All departments working together in the CEEPUS network are focusing on broadly similar scientific topics. These are governed by two main scientific domains: a) Basic geological research and b) Applied geosciences.

A) The basic geological researches can be divided into the following main subjects:

- 1) Geology, mineralogy, petrography and ore deposits mainly of the Alpine-Carpatho-Balkan-Dinaride realm.
- 2) Stratigraphy and sedimentology of the basins related to the Alpine-Carpatho-Balkan-Dinaride realm.
- 3) Paleogeographic and tectonic reconstruction of the Alpine-Carpatho-Balkan-Dinaride realm.

B) The applied geosciences involve the study of raw materials, industrial minerals, artificial mineral products, as well as the objects of interdisciplinary domains such as applied geoarchaeology, geophysics, environmental and engineering geology.

The regional focus lies on the Alpine-Carpatho-Balkan-Dinaride mountain chain, including the problems of the Vienna-, Pannonian- and Transylvanian-basins. Apart from these Mesozoic to Cenozoic structures, another focus is concerned with the Variscan Orogen in the Bohemian Massif, Sudetes and their surroundings.

Scientific cooperation exists since many years among many of the participating departments. In 1999 a small group, from which the present network evolved, started in the frame of CEEPUS a teaching cooperation on a masters and PHD level. The exchange of students among all universities gave and will give them the possibility to take part in different view points of the same problem, of becoming acquainted with different portions of the Alpine or Variscan Orogen respectively, and to experience various methods of scientific-analytical work as well as various ways of teaching.

The mobility of teachers on the other hand, will give the host universities the possibility to complete subjects missing from their curricula, to get new insights of scientific approaches, and to stimulate in turn scientific cooperation.

These can in turn lead to completion of curricula, which might, with time, approach a more homogeneity of the study goals among participating universities in the spirit of the Bologna Declaration. As a consequence, these will lead to joint studies at master's level. For the time being, a number of joint study programs at the PhD level are planned, which are described in a separate section.

Each department can offer specific methods and knowledge. We will share both with our cooperation partners from the other universities. Among the many aspects the contributing universities offer, as can be seen from the description of the contribution of each department participating, the most important and really "**added value**" is the **combination** of the following **ten subjects**:

(1) Soft-rock Geology (as exemplified by Sedimentology, Stratigraphy and Paleontology): Univ. Bratislava, Brno, Budapest, Cluj, Cracow, Graz, Iasi, Kosice, Olomouc, Vienna, Zagreb, Warsaw, Ljubljana, Sofia, Tirana.

(2) Hard-rock Geology (including Metamorphic and Magmatic Petrology): Univ. Bratislava, Brno, Budapest, Graz, Cluj, Iasi, Innsbruck, Salzburg, Sosnowiec, Vienna, Wroclaw, Zagreb, Belgrade, Sofia, Tirana.

(3) Tectonics and Structural Geology: Univ. Bratislava, Budapest, Graz, Kosice, Salzburg, Zagreb, Wroclaw, Warsaw, Sofia.

(4) Geochemistry and Mineral Deposits (including oil): Univ. Iasi, Kosice, Salzburg, Vienna, Graz, Warsaw, Belgrade, Leoben, Sofia.

(5) Geoarcheology-Archaeometry: Univ. Bratislava, Budapest, Cluj, Iasi, Innsbruck, Wroclaw, Ljubljana.

(6) Regional Studies: Univ. Brno, Budapest, Cracow, Olomouc, Salzburg, Sosnowiec, Vienna, Wroclaw, Warsaw, Belgrade, Leoben, Sofia, Tirana.

(7) Mineralogy: Univ. Bratislava, Cluj, Innsbruck, Salzburg, Vienna, Graz, Wroclaw, Warsaw, Belgrade, Tirana, Sofia.

(8) Environmental and Engineering Geology: Univ. Brno, Salzburg, Sosnowiec, Vienna, Wroclaw, Warsaw, Ljubljana, Leoben.

(9) Hydrogeology: Univ. Warsaw, Ljubljana, Tirana

(10) Geophysics: Univ. Salzburg, Leoben, Tirana.

The mutual interaction and process of sharing various subjects will help all participating departments to widen their curricula and later on to take steps unifying them. Furthermore, such an educational network will prepare the students with advanced skills in many fields of the geosciences urgently asked to solve the future needs of society.

Mobility action 2006/2007:

Student and Teacher months, amount and distribution

The mobility actions are restricted this year to the **regular exchange program** only. The total amount of months needed for students and teachers in the frame of the planned CEEPUS II network **103 student months** and **43 teacher months**. Tabs. 1, 2a and 2b show the combined months for students and teachers for the regular network. The high amount of student and teacher months is due to the enlargement of the network by three more Universities: Leoben (A), Tirana (AL) and Sofia (BG). It comprises now **21 universities**.

Regular Network

In the academic year 2006/2007, we will exchange Master students (Undergraduates) as well as PhD students. We agreed to exchange Master students on a four-months basis and PhD students on a one-month basis. The overall plan gives the participating universities the possibility to exchange a maximum of 52 students during the whole academic year.

From these, approximately **35 PhD students** will be exchanged on a one-month basis: 6 to Salzburg, 1 to Graz, 2 to Innsbruck, 5 to Vienna, 2 to Zagreb, 4 to Brno, 1 to Olomouc, 3 to Budapest, 6 to Cracow, 1 to Wroclaw, 1 to Cluj, 1 to Iasi, 1 to Bratislava, and finally 1 to Kosice.

The exchange for the PhD students is devoted to special lectures (including short-courses), such as geochemistry and petrology, structural 3D modeling, geoarcheology, sedimentology and biostratigraphy courses as well as certain analytical techniques and many other skills, students may specifically need for their PhD theses.

Additionally **2 PhD students** from Cluj will go to Salzburg, each with 4-months mobility due to participation at joint PhD degrees according to the local regulations (special doctoral courses, given in English in Salzburg University).

The 15 Diploma students will be exchanged on a 4-months basis in the following way: 1 to Leoben, 2 to Vienna, 1 to Zagreb, 2 to Brno, 2 to Budapest, 1 to Cracow, 1 to Warsaw, 1 to Wroclaw, 2 to Bratislava and finally 2 to Ljubljana (comp. Tab. 1 and 2a). Master students will stay one total semester (i.e. 4 months) and will be incorporated into the normal teaching program. For these students some lectures will be given in English.

The total amount of months needed for the exchange of all (PhD and Master) students is 103.

Among the teachers, the exchanges are based on 1 month as follows: 3 will go to Salzburg, 2 to Graz, 1 to Innsbruck, 2 to Leoben, 2 to Vienna, 1 to Tirana, 1 to Sofia, 3 to Zagreb, 3 to Brno, 3 to Budapest, 5 to Cracow, 1 to Sosnowiec, 2 to Warsaw, 6 to Cluj, 2 to Belgrade, 4 to Bratislava, 1 to Kosice and 1 to Ljubljana (comp. Tab. 1 and 2b). **A total of 43 teacher months is needed.**

Tab.1: Total incoming and outgoing months in each participating country (regular network) 2006/2007:

Incoming

Outgoing

Students

Teachers

Students

Teachers

Austria

34

10

3

12

Albania

0

1

8

2

Bulgaria

0

1

2

0

Czech Rep.

13

3

4

3

Croatia

6

3

2

3

Hungary

11

3

7

3

Poland

19

8

30

8

Romania

2

6

26

6

Serbia

0

2

13

2

Slovakia

10

5

8

4

Slovenia

8

1

0

0

Total

103

43

103

43

Tab. 2a: shows the compilation of the incoming and outgoing **student months** and their distribution among the participating universities. The scheme is to read like that: horizontally (rows): incoming months, vertically (column): outgoing months.

SBG

GRA

IBK

LEO

VIE

TIR

SOF

ZAG

BRN

OLO

BUD

CRA

SOS

WAR

WRO

CLU

IAS

BEL

BRA

KOS

LJU

Tot (IN)

SBG

1

2

1

1

1

8

14

TIR

0

GRA

1

1

VIE

1

1

4

4

1

1

1

13

IBK

1

1

2

LEO

4

4

SOF

0

BRN

1

1

4

4

1

1

12

OLO

1

1

ZAG

1

4

1

6

BUD

1

1

4

4

1

11

CRA

1

1

1

1

4

1

1

10

WRO

4

1

5

SOS

0

WAR

4

4

IAS

1

1

CLU

1

1

LJU

4

4

8

BRA

1

4

4

9

KOS

1

1

BEL

0

Tot
(OUT)

1

0

0

0

2

8

2

2

3

1

7

12

3

12

3

14

12

13

5

3

0

103

Tab. 2b: shows the compilation of the incoming and outgoing **teacher months** and their distribution among the participating universities: The scheme is to read like that: horizontally (rows): incoming months, vertically (column): outgoing months.

SBG

GRA

IBK

LEO

VIE

TIR

SOF

ZAG

BRN

OLO

BUD

CRA

SOS

WAR

WRO

CLU

IAS

BEL

BRA

KOS

LJU

Tot (IN)

SBG

1

1

1

3

TIR

1

1

GRA

1

1

2

VIE

1

1

2

IBK

1

1

LEO

1

1

2

SOF

1

1

BRN

1

1

1

3

OLO

0

ZAG

1

1

1

3

BUD

1

1

1

3

CRA

1

1

1

1

1

5

WRO

0

SOS

1

1

WAR

1

1

2

IAS

0

CLU

2

1

1

1

1

6

LJU

1

1

BRA

1

1

1

1

4

KOS

1

1

BEL

1

1

2

Tot
(OUT)

3

3

1

1

4

2

0

3

2

1

3

1

3

2

2

3

3

2

2

2

0

List of short name and full names of partners

Short form

Partner full name

Country

SBG

University of Salzburg

Austria

TIR

Polytechnic University of Tirana

Albania

GRA

University of Graz

Austria

VIE

University of Vienna

Austria

IBK

University of Innsbruck

Austria

LEO

University of Leoben

Austria

SOF

Sofia University St. Kliment Ohridski

Bulgaria

BRN

Masaryk University in Brno

Czech Republic

OLO

Palacký University, Olomouc

Czech Republic

ZAG

University of Zagreb

Croatia

BUD

Eötvös Lorand University

Hungary

CRA

Jagiellonian University in Cracow

Poland

WRO

University of Wrocław

Poland

SOS

University of Silesia in Katowice

Poland

WAR

Warsaw University

Poland

IAS

"Alexandru Ioan Cuza" University of Iasi

Romania

CLU

"Babes Bolyai" University of Cluj-Napoca

Romania

LJU

University of Ljubljana

Slovenia

BRA

Comenius University in Bratislava

Slovakia

KOS

Technical University in Košice

Slovakia

BEL

Belgrade University

Serbia

Excursions

No excursion is scheduled for the Academic Year 2006/2007

Selection criteria

Student mobility:

Only students fulfilling the following criteria are eligible:

They have to work officially on a diploma/master thesis (undergraduates) or a PhD dissertation (graduates);
They have to prove their knowledge of English and/or German;
They should not exceed the age of 35.

Regarding the duration of visits we decided for diploma students generally on the 4 months model to enable students to take part in courses over the whole semester.

For PHD students in general one month seems to be enough to give them possibilities to learn some techniques or complete their literature knowledge or have scientific discussions with their fellow students and/or their teachers.

Regarding the language, it turned out that German is in all countries participating an important language and is used frequently also by young people (students). On the other hand English is "the language" for science. Almost all international recognized literature is published in English and many lectures in each country are given in also in English. Even regular lectures in the participating universities are given more and more in English.

Teacher mobility

A completed PhD for teachers is required. Regarding the duration of stay, 1 month seems to be enough for giving a series of lectures or a regular short course.

Coordination

We meet regularly once a year preferably end of October or early November to discuss the exchange program of the following summer term, and to prepare the next years application. It is definitely clear that at least **two** coordination meetings would be much better. Unfortunately, it turned out that **mainly for financial reasons** only one coordination meeting per year could be organized.

Apart from the regular coordination meetings we plan to communicate mainly by E-mail to ensure the full exchange of information between all participants and their coordinator. A permanently updated list of all important communication data (E-mail, tel., fax etc.) circulates among the participants. In addition, there exists a close research relationship between many partners. This enables a wealth of personal contacts and discussions during mutual visits. Furthermore, the participants are instructed to communicate **all** activities to the coordinator.

Contributions of each participating department

The participating departments cover a wide range of subjects in the field of the geosciences, which reaches from Palaeontology, Biostratigraphy, Sedimentology, Tectonics and Structural Geology over Magmatic and Metamorphic Petrology, Mineralogy, Geophysics, Geodynamic aspects and Regional Studies to applied subjects such as Hydrogeology, Environmental Geology or Engineering Geology and Archaeometry (Geoarchaeology) as well as Geochemistry and Mineral Deposits. In the following the specific areas of each institution are listed in alphabetical order:

Belgrade: Igneous, Metamorphic Petrology, Geochemistry, Crystallography of Natural and Industrial Mineral Species, Regional Geology and Geodynamics, Palaeontology, Geophysics and Ore Deposit Geology;

Bratislava: Structural Geology and Petrotectonics, Phase Equilibria, Crystal Chemistry, Biostratigraphy, Microfacies studies, Sedimentology, Archaeometry;

Brno: Biostratigraphy and Sedimentology of Paleozoic Limestones and Greywackes, Regional Studies in the Variscan Mountain Belt, Environmental Geology;

Budapest: Basin Development, Hydrogeology, Structural Geology, Regional Studies of the Pannonian Plain, Mantle Petrology, Seismic Interpretation, Sedimentology, Archaeometry;

Cluj: Gemmology, Applied Mineralogy, Magmatic Petrology, Ophiolites, Geoarchaeology-Archaeometry, Micropalaeontology, Carbonate microfacies;

Cracow: Studies in Sedimentology esp. in Flysch Sediments, Biostratigraphy (Foraminifera) of Flysch Sequences, Trace Fossil Analysis, Geodynamics of the Carpathian Orogen and its Foreland;

Graz: Palaeontology and Stratigraphy, Structural Geology, Metamorphic Petrology, Crystallography-Mineralogy, Geochemistry and Mineral Deposits;

Iasi: Magmatic and Metamorphic Petrology, Planetary Geology, Geochemistry, Palaeontology and Stratigraphy;

Innsbruck: Experimental Mineralogy, Petrology, Rock Deterioration Studies, Archaeometry, Archaeometallurgy, Conservation Sciences;

Kosice: Tectonics, Sedimentology, Mineral Deposits, Geostatistics, Geotourism;

Leoben: Mineral and Petroleum Deposits, Applied Geophysics, System Analysis and Assessment of Natural and Environmental Resources;

Ljubljana: Petrology, Environmental Geochemistry, Karst Geology, Geomorphology, Hydrogeology, Clay Mineralogy, Archaeometry, Quaternary Geology, Paleontology and Stratigraphy;

Olomouc: Sedimentology and Stratigraphy of Variscan Flysch Sediments including Carbonate Rocks;

Salzburg: Structural Geology, Metamorphic and Magmatic Petrology, Ophiolites, Regional Studies of the Alps, Geodynamics of Collisional Orogens, Engineering Geology, Mineral Deposits Mineralogy and Crystal Chemistry. Ar/Ar dating;

Sofia: Mineralogy, Metamorphic and Magmatic Petrology, Geochemistry, Mineral Deposits and Economic Geology, Environmental Mineralogy and Geochemistry, Stratigraphy, Palaeontology, Structural Geology;

Sosnowiec: Metamorphic Petrology, Regional Studies in the Carpathians, Environmental Geology and Air Pollution;

Tirana: Mineralogy, Petrology and Geochemistry Stratigraphy, Palaeontology Geodynamics, Geophysics, Applied and Environmental Geology, Mineral Deposits;

Vienna: Magmatic and Metamorphic Petrology especially High Pressure Metamorphism and Granite Petrology, Regional Studies of the Variscan Metamorphics, Ophiolites, Applied Sedimentology including Environmental Aspects;

Warsaw: Feldspar Mineralogy, Fluid Inclusions Study, Geochemical Modeling of Igneous Processes and Water-rock Interaction, Hydrogeochemistry, Environmental Geology, Stratigraphy;

Wroclaw: Magmatic and Metamorphic Petrology, Structural Geology, Regional Studies of the Sudetes, Applied Mineralogy and Petrology (Geoarchaeology), Environmental Geology;

Zagreb: Sedimentology including Carbonate Platform Studies and Facies Analysis, Marine Studies, Metamorphic and Magmatic Petrology, Tectonics and Structural Geology.

3.5. Recognition

In the meantime almost all network partners use the ECTS point system as listed below. Only the University of Belgrade and the Polytechnical University of Tirana have no Credit point system yet. Both institutions are working on it. The participation at the CEEPUS network will stimulate both institutions to change quickly to the ECTS system.

Salzburg (Coord):

Homepage: <http://www.sbg.ac.at/gew/home.htm>

Website for ECTS: <http://www.sbg.ac.at/gew/studinfo/ectsd.htm>

Tirana:

Homepage: http://www.upt.al/index_files/Page665.htm

Website for ECTS:

Graz:

Homepage: <http://www.kfunigraz.ac.at/imnwww/>

Website for ECTS: <http://www.uni-graz.at/zvwww/studplan/sperdwiss.html>

Vienna:

Homepage: <http://www.univie.ac.at/petrologie/>

Website for ECTS: http://www.univie.ac.at/Geologie/english/stand_s_e.htm

Innsbruck:

Homepage: <http://www.uibk.ac.at/c/c7/c714/>

Website for ECTS: <http://www.uibk.ac.at/c101/mitteilungsblatt/2000/50/2000-50-798.html>

Leoben:

Homepage: <http://www.unileoben.ac.at/institute/geologie.htm>

<http://www.unileoben.ac.at/institute/geophwww.htm>

<http://www.unileoben.ac.at/institute/minepet.htm>

<http://www.unileoben.ac.at/institute/prosp.htm>

Website for ECTS: <http://www.unileoben.ac.at/>

Sofia:

Homepage: <http://www.uni-sofia.bg/faculties/geo/index.html>

Website for ECTS: <http://www.uni-sofia.bg/faculties+bg/geo+bg/geology+bg.html>

Brno:

Homepage: <http://www.muni.cz/sci/structure/315010.html>

Website for ECTS: <http://www.sci.muni.cz/akreditace/g/1201t-geocho.htm>

Olomouc:

Homepage: <http://www.upol.cz/resources/geology/department.html>

Website for ECTS: <http://www.upol.cz/resources/geology/department.html>

Zagreb:

Homepage: <http://geol.gfz.hr/>

Website for ECTS: http://geol.gfz.hr/red_predavanja.htm

http://geol.gfz.hr/red_predavanja2.htm

http://www.rgn.hr/index.php?lmen=4&smen=25&link=nastava_geologija&lang=hr

Budapest:

Homepage: <http://www.geology.elte.hu>

Website for ECTS: <http://157.181.174.19/kredit/index.htm>

Cracow:

Homepage: <http://www2.uj.edu.pl/ING/>

Website for ECTS: http://www2.uj.edu.pl/ING/program_kursow/wykaz_kursow.pdf

Wroclaw:

Homepage: <http://www.zmip.ing.uni.wroc.pl/>

Website for ECTS: <http://www.uni.wroc.pl/STUDIA/ects/indexe.htm>

Sosnowiec:

Homepage: <http://www.wnoz.us.edu.pl/>
Website for ECTS: http://www.wnoz.us.edu.pl/down/ects_geologia_en.doc

Warsaw:

Homepage: <http://www.geo.uw.edu.pl>
Website for ECTS: <http://www.geo.uw.edu.pl/STUDIA/INFORMATOR/inf.htm>

Iasi:

Homepage: <http://geography.uaic.ro/default.php?t=site&lang=EN>
Website for ECTS: <http://geography.uaic.ro/default.php?t=site&lang=EN>
<http://geography.uaic.ro/default.php?t=site&pgid=9>

Cluj-Napoca:

Homepage: <http://bioge.ubbcluj.ro/staff.htm>
Website for ECTS: <http://bioge.ubbcluj.ro/credite/a5.htm>

Ljubljana:

Homepage: <http://www.ntfgeo.uni-lj.si/>
Website for ECTS: <http://www.ntfgeo.uni-lj.si/> under study

Bratislava:

Homepage: <http://www.fns.uniba.sk/fns/info/3.php3>
Website for ECTS: http://www.fns.uniba.sk/fns/study/2001_02/geol.php

Kosice

Homepage: <http://www.tuke.sk/fberg/>
Website for ECTS: <http://www.tuke.sk/ECTS/>

Belgrade:

Homepage: <http://www.rgf.bg.ac.yu/>
Website for ECTS:

At most web sites there are very specific information about ECTS, other have only general information on the use of ECTS.

In addition we approached the according authorities responsible for recognition at each university to make sure, that the outcomings, results and marks of the students were officially recognized.

3.6. Special merits

University partnership **Salzburg - Cracow**
University partnership **Brno – Wroclaw**
University partnership **Vienna – Budapest**
University partnership **Salzburg – Cluj**
University partnership **Cluj – Cracow**
University partnership **Zagreb – Budapest**
University partnership **Warsaw - Vienna**
University partnership **Ljubljana - Warsaw**
University partnership **Warsaw - Bratislava**
University partnership **Sofia – Budapest**
University partnership **Sofia - Cracow**
University partnership **Sofia - Warsaw**
University partnership **Sofia - Zagreb**

Further information

Joint Degrees

Presently four PHD projects are carried out in the frame of PHD studies. These programs include the universities of Salzburg, Graz, Cracow, Bratislava and Cluj-Napoca. All are in various state of preparation and have already started. The 4 projects are:

1) Mesozoic volcanics from the eastern part of the Apuseni Mts., Romania

Partners:

Babes-Bolyai University Cluj-Napoca, Romania (primary institution)
Salzburg University, Austria

2) Bronze Age ceramics in Transylvania: mineralogical and technological features

Partners:

Babes-Bolyai University Cluj-Napoca, Romania (primary institution)
Salzburg University, Austria

3) Jurassic granitoids from the South Apuseni Mts., Romania: geochemistry and tectonic setting

Partners:

Jagiellonian University in Cracow, Poland (primary institution)
Babes-Bolyai University Cluj-Napoca, Romania
Salzburg University, Austria

4) Apatite –Zircon Fission track dating in the Western Carpatians

Partners

Comenius University Bratislava, Slovakia (primary institution)
University of Graz, Austria

Duration

The present network with the given mobility among students and teachers serves as a sort of seed project for a longer lasting cooperation among the participating departments and universities. This is not only documented by the mobility activities but also by a increasing amount of joint research projects among the participants, joint publications, co-authorship at congress presentation and plans for common "Joint Degree" studies among the participating universities (see according section). During the last meeting of the network partners in Budapest (Hungary) in November 2005 **it was unanimously agreed that the network had served perfectly until now the purposes it was established for:** to promote the mutual exchange and discussion among students and teachers and learn from each other various aspects of scientific thinking and bring together a group of interested people and create a forum on common problems such as university studies, research and last not least structural problems at the universities.

Enlargement of the network

The network grew substantially over the last years. The number of participating departments and universities has tripled from 7 to 21 in the present application. There are no plans to enlarge the network in the future.

Traditionally, special attention will be given to the CEEPUS – South East Europe Program, in case the latter is prolonged. If other CEEPUS countries adopt a similar program partner universities from these countries will also take part in this program. Therefore, we will accept students and teachers in the frame of the South East Europe Programme from Bosnia and Kosovo. A number of students and teachers from these countries are currently visiting the Austrian Universities Salzburg and Vienna. Depending on the prolongation of the thematic program more applications from these countries are expected in the coming academic year.

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Partners:

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Planned activities

Mobility action 2006/2007

Student and Teacher months, amount and distribution

The mobility actions are restricted this year to the regular exchange program only. The total amount of months needed for students and teachers in the frame of the planned CEEPUS II network is 103 student months and 43 teacher months. Tabs. 1, 2a and 2b show the combined months for students and teachers for the regular network. The high amount of student and teacher months is due to the enlargement of the network by three more Universities: Leoben (A), Tirana (AL) and Sofia (BG). It comprises now 21 universities.

Regular Network

In the academic year 2006/2007, we will exchange Master students (Undergraduates) as well as PhD students. We agreed to exchange Master students on a four-months basis and PhD students on a one-month basis. The overall plan gives the participating universities the possibility to exchange a maximum of 52 students during the whole academic year.

From these, approximately 35 PhD students will be exchanged on a one-month basis: 6 to Salzburg, 1 to Graz, 2 to Innsbruck, 5 to Vienna, 2 to Zagreb, 4 to Brno, 1 to Olomouc, 3 to Budapest, 6 to Cracow, 1 to Wroclaw, 1 to Cluj, 1 to Iasi, 1 to Bratislava, and finally 1 to Kosice.

The exchange for the PhD students is devoted to special lectures (including short-courses), such as geochemistry and petrology, structural 3D modeling, geoarcheology, sedimentology and biostratigraphy courses as well as certain analytical techniques and many other skills, students may specifically need for their PhD theses.

Additionally 2 PhD students from Cluj will go to Salzburg, each with 4-months mobility due to participation at joint PhD degrees according to the local regulations (special doctoral courses, given in English in Salzburg University).

The 15 Diploma students will be exchanged on a 4-months basis in the following way: 1 to Leoben, 2 to Vienna, 1 to Zagreb, 2 to Brno, 2 to Budapest, 1 to Cracow, 1 to Warsaw, 1 to Wroclaw, 2 to Bratislava and finally 2 to Ljubljana (comp. Tab. 1 and 2a). Master students will stay one total semester (i.e. 4 months) and will be incorporated into the normal teaching program. For these students some lectures will be given in English.

The total amount of months needed for the exchange of all (PhD and Master) students is 103.

Among the teachers, the exchanges are based on 1 month as follows: 3 will go to Salzburg, 2 to Graz, 1 to Innsbruck, 2 to Leoben, 2 to Vienna, 1 to Tirana, 1 to Sofia, 3 to Zagreb, 3 to Brno, 3 to Budapest, 5 to Cracow, 1 to Sosnowiec, 2 to Warsaw, 6 to Cluj, 2 to Belgrade, 4 to Bratislava, 1 to Kosice and 1 to Ljubljana (comp. Tab. 1 and 2b). A total of 43 teacher months is needed.

Tab.1: Total incoming and outgoing months in each participating country (regular network) 2006/2007:

	Incoming		Outgoing	
	Students	Teachers	Students	Teachers
Austria	34	10	3	12
Albania	0	1	8	2
Bulgaria	0	1	2	0
Czech Rep.	13	3	4	3
Croatia	6	3	2	3
Hungary	11	3	7	3
Poland	19	8	30	8
Romania	2	6	26	6
Serbia	0	2	13	2
Slovakia	10	5	8	4
Slovenia	8	1	0	0
Total	103	43	103	43

Tab. 2a: shows the compilation of the incoming and outgoing student months and their distribution among the participating universities. The scheme is to read like that: horizontally (rows): incoming months, vertically

(column): outgoing months.

	SBG	GRA	IBK	LEO	VIE	TIR	SOF	ZAG	BRN	OLO	BUD	CRA	SOS	WAR	WRO	CLU	IAS	BEL	BRA	KOS	
LJU Tot (IN)																					
SBG							1 2		1 1			1 8						14			
TIR																					0
GRA							1														1
VIE								1 1 4 4				1 1		1			13				
IBK																	1 1			2	
LEO																4				4	
SOF																					0
BRN				1						1	4			4	1 1	12					
OLO												1									1
ZAG									1			4 1							6		
BUD				1				1	4				4			1		11			
CRA 1								1	1				1		4 1 1	10			1	5	
WRO																4					
SOS																					
0																					
WAR						4															4
IAS												1									1
CLU											1										1
LJU					4											4				8	
BRA											1	4				4			9		
KOS												1									1
BEL																					0
Tot																					
(OUT)	1	0	0	2	8	2	2	3	1	7	12	3	12	3	14	12	13	5	3	0	103

Tab. 2b: shows the compilation of the incoming and outgoing teacher months and their distribution among the participating universities: The scheme is to read like that: horizontally (rows): incoming months, vertically (column): outgoing months.

	SBG	GRA	IBK	LEO	VIE	TIR	SOF	ZAG	BRN	OLO	BUD	CRA	SOS	WAR	WRO	CLU	IAS	BEL	BRA	KOS	
LJU Tot (IN)																					
SBG													1		1	1			3		1
TIR				1																	1
GRA																		1 1		2	
VIE								1						1						2	
IBK																	1				1
LEO																1	1			2	
SOF	1																				1
BRN				1								1 1							3		
OLO																					
0																					
ZAG						1				1			1						3		
BUD				1			1						1						3		
CRA				1				1 1					1			1	5				
WRO																					
0																					
SOS																1					1
WAR 1						1														2	
IAS																					0
CLU 2 1				1		1			1									6			
LJU								1													1
BRA	1									1	1 1								4		
KOS																1					1
BEL				1						1										2	
Tot																					
(OUT)	3	3	1	4	2	0	3	2	1	3	1	3	2	2	3	2	2	0	43		

List of short name and full names of partners

Short form	Partner full name	Country
1.	SBG University of Salzburg	Austria
2.	TIR Polytechnic University of Tirana	Albania
3.	GRA University of Graz	Austria
4.	VIE University of Vienna	Austria
5.	IBK University of Innsbruck	Austria
6.	LEO University of Leoben	Austria
7.	SOF Sofia University St. Kliment Ohridski	Bulgaria
8.	BRN Masaryk University in Brno	Czech Republic
9.	OLO Palacký University, Olomouc	Czech Republic
10.	ZAG University of Zagreb	Croatia
11.	BUD Eötvös Lorand University	Hungary
12.	CRA Jagiellonian University in Cracow	Poland
13.	WRO University of Wroclaw	Poland
14.	SOS University of Silesia in Katowice	Poland
15.	WAR Warsaw University	Poland
16.	IAS "Al.I. Cuza" University of Iasi	Romania
17.	CLU "Babes Bolyai" University of Cluj-Napoca	Romania
18.	LJU University of Ljubljana	Slovenia
19.	BRA Comenius University in Bratislava	Slovakia
20.	KOS Technical University in Košice	Slovakia
21.	BEL Belgrade University	Serbia

Excursions

No excursion is scheduled for the Academic Year 2006/2007

Types of instructions planned

assistance with work on a (doctoral) thesis
 courses
 excursions
 laboratory work
 lectures

Language of instructions planned

english
 german