

## Minutes

### EcoBRU Project Meeting in Bremen from February 17<sup>th</sup> to February 21<sup>st</sup>, 2014

#### Participants:

Name	Institution	Function	Country
Dr. Klaus Ruth	Institute Technology and Education (ITB)/University of Bremen	Senior Researcher	DE
Prof. Dr. Falk Howe	Institute Technology and Education (ITB)/University of Bremen	Director	DE
Georg Oborowski	Institute Technology and Education (ITB)/University of Bremen	Student Assistant	DE
Emke Emken	Bau-ABC Rostrup	Director	DE
Melanie Campbell	Bau-ABC Rostrup	Project coordinator Civil Engineering	DE
Dr. Guido Kaufmann	Kaufmann Unternehmensberatung GmbH	Project Manager	DE
Dr. Viachaslau Nikitsin	Kaufmann Unternehmensberatung GmbH	Project Manager	DE
Yuliya Divivi	Kaufmann Unternehmensberatung GmbH	Project Assistant	DE
Prof. Dr. Juris Benders	Latvian University Riga	Professor	LV
Dr. Rita Birzina	Latvian University Riga	Senior Researcher	LV
Dr. Jiří Jedlička	CDV Brno	Senior Researcher	CZ
Dr. Roman Licbinsky	CDV Brno	Senior Researcher	CZ
Dr. Marta Kanderkova	University of Zilina	Associate Professor	SK
Dr. Daniela Durcanska	University of Zilina	Associate Professor	SK
Dr. Josef Noeke	University of Paderborn	Head of Institute	IT
Dr. Andrey Daragenski	Polesky State University	Professor	BY
Dr. Aliaksandr Chachotkin	Belarussian State Agricultural Academy	Vice Rector	BY
Dr. Irena Lapina	National Institute for Higher Education	Head of Dpt.	BY
Dr. Svetlana Lapina	National Institute for Higher Education	Professor	BY
Dr. Alena Kasyanik	Republican Institute for Vocational Education	Vice Rector	BY
Dr. Eduard Kalitski	Republican Institute for Vocational Education	Vice Rector	BY
Dr. Valery Bashmetau	Vitebsk State Technological University	Rector	BY
Dr. Iryna Semianchukova	Vitebsk State Technological University	Dean	BY
Dr. Semjon Kundas	International Sakharov Environmental University	Professor	BY
Dr. Uladzimir Krasouski	International Sakharov Environmental University	Vice Rector	BY
Dr. Aksana Kavaliova	Gomel State University Named Francisk Scorina	Head of Dpt.	BY
Dr. Oleg Demidenko	Gomel State University Named Francisk Scorina	Vice Rector	BY
Dr. Vitaly Mironyuk	Rostov State University of Civil Engineering	Professor	RU
Dr. Sergey Meshcheryakov	Rostov State University of Civil Engineering	Associate Professor	RU
Dr. Aleksandr Rakhmangulov	Magnitogorsk State Technical University	Professor	RU
Dr. Sergey Kornilov	Magnitogorsk State Technical University	Professor	RU
Dr. Elena Sartakova	Novosibirsk Chemical Technology College Mendeleev	Director	RU
Dr. Tatyana Chervyakova	Novosibirsk Chemical Technology College Mendeleev	Vice Director	RU
Dr. Konstantin Afanasyev	Novgorod Institute of Educational Development	Professor	RU
Dr. Oleg Zaychenko	Novgorod Institute of Educational Development	Assistant of Rector	RU
Prof. Dr. Evgenii Svintcov	St. Petersburg State Transport University	Professor	RU
Olga Surovtseva	St. Petersburg State Transport University	Associate Professor	RU
Nataliia Kokleva	St. Petersburg State Transport University	Associate Professor	RU
Prof. Dr. Evgenii Dudkin	St. Petersburg State Transport University	Professor	RU
Dr. Boris Liberman	Lipetsk State Technical University	Associate Professor	RU
Prof. Dr. Igor Musikhin	Siberian State Academy of Geodesy	Vice Rector	RU

Prof. Dr. Igor Voronin	Taurida V. Vernadsky National University	Head of Institute	UA
Dr. Ganna Voronina	Taurida V. Vernadsky National University	Deputy Head of Institute	UA
Dr. Valentyna Radkevych	National Academy for Pedagogical Sciences	Head of Institute	UA
Dr. Snizhana Leu	National Academy for Pedagogical Sciences	Researcher	UA
Prof. Dr. Stepan Kostyshyn	Yuriy Fedkovych Chernivtsi National University	Professor	UA
Prof. Dr. Mariia Fedoriak	Yuriy Fedkovych Chernivtsi National University	Professor	UA
Prof. Dr. Iurii Gutarevych	National Transport University Kiev	Professor	UA
Prof. Dr. Inessa Rytkovska	National Transport University Kiev	Professor	UA
Dr. Olesia Skliarenko	Pereyaslav-Khmelnytskyy Hryhoriy Skovoroda State Pedagogical University	Professor	UA
Dr. Serghij Ryk	Pereyaslav-Khmelnytskyy Hryhoriy Skovoroda State Pedagogical University	Professor	UA

**Date:** February 17<sup>th</sup>, 2014

**Excursion:** Bau-ABC Rostrup - Virchowstraße 5 - 26160 Bad Zwischenahn

**Item 0: Brief Welcome by Director of ITB** (Prof. Dr. Falk Howe/University of Bremen, ITB)

In advance of the scheduled excursion all project partners visit the building of the ITB at the address Fallturm 1, 28359 Bremen. They are welcomed by Dr. Klaus Ruth and Prof. Dr. Falk Howe. First Falk Howe introduces himself to the participants. Then he gives a presentation about the history, organization, focuses of research and educational programmes of the ITB. For details please consult presentation "01 EcoBRU Bremen Howe 20140217.pdf"

**Item 1: Excursion to BAU ABC Rostrup** (moderation: Dr. Klaus Ruth/University of Bremen, ITB)

The participants go by bus to Bad Zwischenahn where the Bau ABC Rostrup is located. They are welcomed by Emke Emken/Director of Bau ABC Rostrup and Melanie Campbell/Project coordinator Civil Engineering.

With a well prepared presentation Emke Emken and Melanie Campbell provide a deep insight into objectives, organization, resources, financing and basic principles of education at the Bau ABC. For details please consult presentation "02 EcoBRU Bremen Emken 20140217.pdf". Another focus of their presentation are detailed explanations how the Bau ABC manages that the students adopt professional competences and skills. For this purpose students have to solve practical tasks instructed by specific teaching materials. For details please consult presentation "03 EcoBRU Bremen Campbell 20140217.pdf".

The presentations encounter large interest at the participants. They ask many questions that are answered in detail by Emke Emken and Melanie Campbell. The presentations are completed by a guided tour through the educational sites of the Bau ABC. The participants receive many impressions of practical education at the Bau ABC and because they ask many interesting questions the time scheduled for this visit is exceeded for nearly two hours.

**Item 2: Excursion to Climate House Bremerhaven** (moderation: Dr. Klaus Ruth/University of Bremen, ITB)

Due to the fact that the arrival at the Climate House Bremerhaven only was at 5 p. m. the remaining time was not sufficient for a guided tour through the Climate House. Thus it was decided that everybody who wants to visit the Climate House on his own is able to do this just for one hour. For all others information will be provided next day enabling them to go to the Climate House on February 20<sup>th</sup>.

**Date:** February 18<sup>th</sup>, 2014

**Place:** University of Bremen, Emmy-Noether-Str., Bremen, building SFG, Room 2.010

**Item 3: Welcome, Programme of the Meeting, Organizational Issues** (Dr. Klaus Ruth/University of Bremen, ITB)

Klaus Ruth welcomes the participants, then he presents a brief survey on the programme of the project meeting and provides some organizational information including information about visits at the Climate House Bremerhaven and further museums.

**Item 4: Presentations of Project Partners** (moderation: Dr. Viachaslau Nikitsin/Kaufmann Unternehmensberatung)

Viachaslau Nikitsin welcomes all project partners as well and thanks Klaus Ruth and the ITB-team for the excellent organization of the kick-off meeting of EcoBRU. Afterwards all project partners introduce themselves, mostly by a PowerPoint presentation. All introductions are listed in the table below in order of appearance. For details please check the presentations:

<b>Project Partner</b>	<b>Representative</b>	<b>Presentation/Speech</b>
University of Latvia Riga (UL)	Juris Benders, Rita Birziņa	Presentation "04 EcoBRU Bremen Benders 20140218.pdf"
University of Paderborn (UPB)	Josef Noeke	Presentation "05 EcoBRU Bremen Noeke 20140218.pdf"
University of Zilina (UNIZA)	Marta Kanderkova	Presentation "06 EcoBRU Bremen Kanderkova 20140218.pdf"
CDV Transport and Research Centre (CDV)	Roman Licbinsky	Presentation "07 EcoBRU Bremen Licbinsky 20140218.pdf"
INTERNATIONAL SAKHAROV ENVIRONMENTAL UNIVERSITY (ISEU)	Semjon Kundas	Presentation "08 EcoBRU Bremen Kundas 20140218.pdf"
Vitebsk State Technological University (VSTU)	Iryna Semianchukova	Presentation "09 EcoBRU Bremen Semianchukova 20140218.pdf"
Polesky State University (PolesSU)	Andrey Daragenski	Presentation "10 EcoBRU Bremen Daragenski 20140218.pdf"
Gomel State University Named Francisk	Oleg Demidenko	Presentation "11 EcoBRU Bremen

Scorina (GSU)		Demidenko 20140218.pdf
Republican Institute for Vocational Education (RIPO)	Eduard Kalitski, Alena Kasyanik	Presentation "12 EcoBRU Bremen Kalitski 20140218.pdf"
National Institute for Higher Education (NIHE)	Svetlana Lapina	Presentation "13 EcoBRU Bremen Lapina 20140218.pdf"
Belarussian State Agricultural Academy (BSA)	Aliaksandr Chachotkin	Presentation "14 EcoBRU Bremen Chachotkin 20140218.pdf"
Petersburg State Transport University (PSTU)	Evgenii Dudkin, Olga Surovtseva	Presentation "15 EcoBRU Bremen Dudkin 20140218.pdf"
Rostov State University of Civil Engineering (RSUCE)	Vitaly Mironyuk, Sergey Meshcheryakov	Presentation "16 EcoBRU Bremen Mironyuk 20140218.pdf"
Lipetsk State Technical University (LSTU)	Boris Liberman	Presentation "17 EcoBRU Bremen Liberman 20140218.pdf"
Magnitogorsk State Technical University (MSTU)	Aleksandr Rakhmangulov	Presentation "18 EcoBRU Bremen Rakhmangulov 20140218.pdf"
Novgorod Institute of Educational Development (NIRO)	Oleg Zaychenko	Presentation "19 EcoBRU Bremen Zaychenko 20140218.pdf"
Siberian State Academy of Geodesy (SSGA)	Igor Musikhin	Presentation "20 EcoBRU Bremen Musikhin 20140218.pdf"
Novosibirsk Chemical Technology College Mendeleev	Elena Sartakova	Presentation "21 EcoBRU Bremen Sartakova 20140218.pdf"
National Transport University Kiev	Iurii Gutarevych	Presentation "22 EcoBRU Bremen Gutarevych 20140218.pdf"
Taurida V. Vernadsky National University (TNU)	Igor Voronin	Presentation "23 EcoBRU Bremen Voronin 20140218.pdf"
Yuriy Fedkovych Chernivtsi National University (CHNU)	Stepan Kostyshyn, Mariia Fedoriak	Presentation "24 EcoBRU Bremen Kostyshyn 20140218.pdf"
Pereyaslav-Khmelnytskyi Hryhoriy Skovoroda State Pedagogical University (PHDPU)	Serghij Ryk, Olesia Skliarenko	Presentation "25 EcoBRU Bremen Ryk 20140218.pdf"
National Academy for Pedagogical Sciences (IVET of NAPS)	Valentyna Radkevych, Snizhana Leu	Presentation "26 EcoBRU Bremen Radkevych 20140218.pdf"
Kaufmann Unternehmensberatung GmbH	Guido Kaufmann	Presentation " 27 EcoBRU Bremen KUB 20140218.pdf"

#### **Item 5: Presentation of EcoBRU: Aims, Objectives, Work Packages, aimed Outputs and Outcomes**

(Dr. Viachaslau Nikitsin, Dr. Guido Kaufmann/Kaufmann Unternehmensberatung GmbH)

Guido Kaufmann and Viachaslau Nikitsin explain aims, objectives, work packages, aimed outputs and outcomes of the EcoBRU project in detail. Especially they emphasize the project outputs and outcomes and the progress indicators related to them and expose the importance of workpackage 2 "Detailed Analysis and Specification of Qualification Needs" for the whoë further project implementation. For more details please consult presentation "28 EcoBRU Bremen Kaufmann 20140218.pdf".

#### **Item 6: Short Welcoming Speech** (Prof. Dr. Yasemin Karakaşođlu/University of Bremen, Vice Rector for Intercultural and International Issues)

After the participants have moved to the ITB (Am Fallturm 1, Bremen) they are welcomed by Yasemin Karakaşođlu. In her speech she expresses her pleasure about the commitment of the EcoBRU project, she

provides a brief survey on international and intercultural activities of the University of Bremen and delivers her very best wishes for good and fruitful cooperation in the project.

**Item 7: Project Administration: Preparation of Mobilities, Payments of Salaries, Purchase of Equipment, Bilateral Agreements with University of Paderborn and between Project Partners**  
(Dr. Viachaslau Nikitsin, Dr. Guido Kaufmann/Kaufmann Unternehmensberatung GmbH)

Guido Kaufmann and Viachaslau Nikitsin start their presentation with a survey of the management structure of the project and a proposal for the establishment of a project management board. In order to implement the project officially in the partner countries and to regulate payments of financial means bilateral agreements between the University of Bremen and all project partners will be prepared – as far as necessary. They continue with detailed explanations of all procedures and processes according to the preparation and accomplishment of project mobilities, to payments of salaries and to the purchase of equipment. Finally they describe the revision of the project budget due to the budget limitation by EACEA. For more details please consult presentation “29 EcoBRU Bremen Kaufmann 20140218.pdf”.

**Date:** February 19<sup>th</sup>, 2014

**Place:** University of Bremen, Emmy-Noether-Str., Bremen, building SFG, Room 2.010

**Item 8: Workshop Detailed Analyses** (moderation: Dr. Klaus Ruth/University of Bremen, ITB)

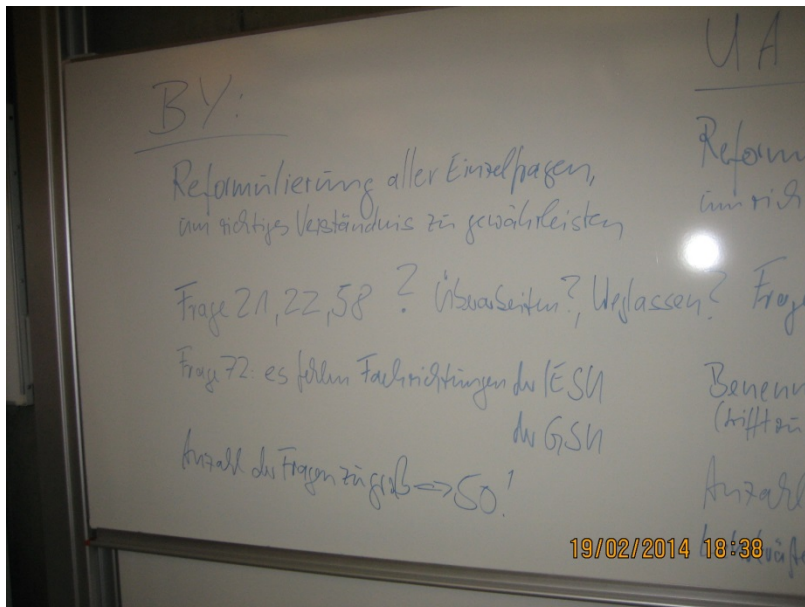
Klaus Ruth opens the workshop by a presentation on ecological fields and scopes of action, on ecology as a natural science, concepts of ecological prevention and careful use of resources and professional work. Based on this background he deduces consequences on methodological aspects of the needs analysis and the development of e-learning platforms. For more details please consult presentations “30 EcoBRU Bremen Bremer Ruth 20140219 DE.pdf” and “30 EcoBRU Bremen Bremer Ruth 20140219 RU.pdf”

Following the first part of the presentation an intensive discussion comes up with regards to the specification of content and target group oriented didactical and methodological differentiation of the analysis. An interesting contribution to this discussion is provided by Josef Noeke/University of Paderborn in a brief presentation on the integration of ecological subjects into classical engineering study programmes. For more details please consult presentation “31 EcoBRU Bremen Noeke 20140219.pdf”.

Klaus Ruth continues with the second part of the presentation “30 EcoBRU Bremen Bremer Ruth 20140219 DE.pdf” which is focused on the structure and target groups of a questionnaire that will be used to collect basic information for the needs analysis. With respect to the different target groups two standardized

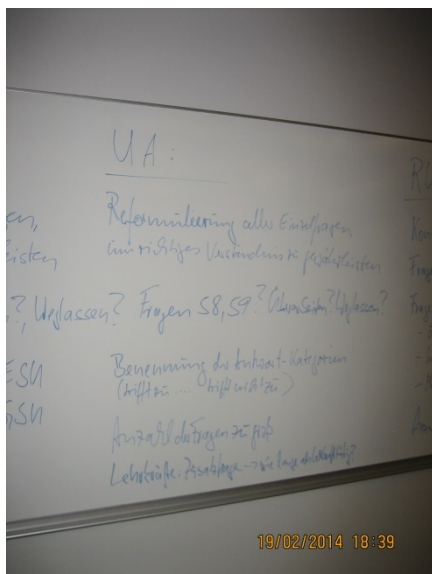
questionnaires have been prepared in German and Russian language, one for students and one for university teachers. Paper copies of both questionnaires (Russian versions) are handed to all project teams in order to inspect them carefully and critically. Because most of the project teams are not really acquainted with empirical field research and due to some fuzzy translations into Russian language an intensive discussion about the questionnaires starts. One point of criticism is the apparent poor structure (*annotation of the author: from the methodological point of view this "poor structure" is completely correct*). Thus Juris Benders/Latvian University Riga reminds the participants of his presentation "04 EcoBRU Bremen Benders 20140218.pdf" by which he had provided some hints on structuring ecological problems.

Finally the participants are divided into one Belarussian, one Russian and one Ukrainian working group in order to elaborate suggestions for the improvement of the questionnaires. The results of the working groups are summarized in the following pictures:



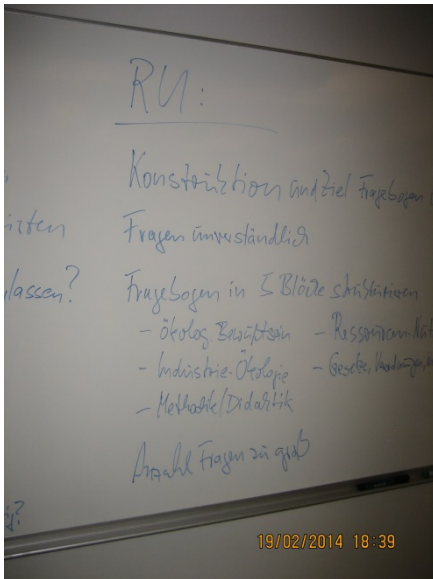
#### Results of the Belarussian Working Group:

- all questions should be revised according to correct Russian language,
- sense of questions no. 21, 22 and 58 is completely unclear,
- question no. 72 should be complemented by additional subjects,
- in total too many questions



#### Results of the Ukrainian Working Group:

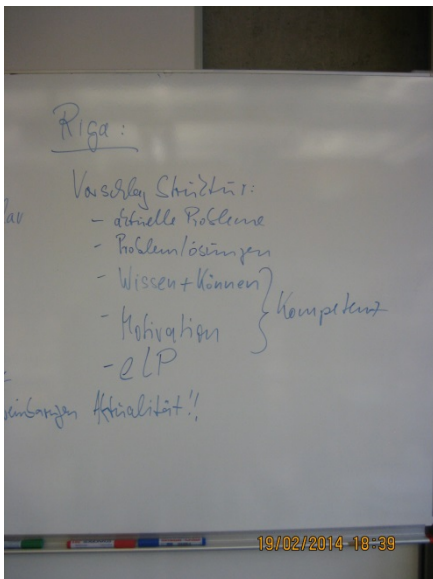
- all questions should be revised according to correct Russian language,
- sense of questions no 58 and 59 is completely unclear,
- name of response categories unclear,
- in total too many questions,
- an additional question should be added to the questionnaire for university teachers: "For how long are you already working as a university teacher?"



### Results of the Russian Working Group:

- construction and target of the questionnaire unclear,
- questions are not clear,
- questionnaire should be structured into 5 chapters:
  1. ecological awareness,
  2. use of resources,
  3. industrial ecology,
  4. laws and regulation,
  5. methodological and didactical aspects,
- in total too many questions

In addition to the working groups results Juris Benders/Latvian University Riga suggests a new structure for the questionnaire:



### Suggestion for structuring the questionnaire:

- current ecological problems,
- solutions of those problems,
- knowledge and capabilities,
- motivations,
- e-learning platform

Based on these results and recommendations as well as based on the fact that the majority of the graduates of the project partners probably will not apply for a work as teachers in vocational education institutions it is decided to review the questionnaire.

### Item 9: Workshop Ecological Didactics

Due to too less time this workshop is postponed to next project meeting in St. Petersburg.

**Date:** February 20<sup>th</sup>, 2014

**Place:** University of Bremen, Emmy-Noether-Str., Bremen, building SFG, Room 2.010

**Item 10: Final Coordination Meeting** (moderation: Dr. Guido Kaufmann, Dr. Viachaslau Nikitsin/Kaufmann Unternehmensberatung GmbH)

- **Questionnaire:** The results of the workshop (item 8) will be discussed with PD Dr. Rainer Bremer/ITB, University of Bremen. According to the results of this discussion the questionnaire will be reviewed in a short term.
- **Time schedule for questionnaire:** In order to complete the detailed analysis of qualification needs in the partner countries in time a strict schedule of the questionnaire is passed:
  - beginning of March 2014: review of questionnaire,
  - mid-March 2014: final control of correct translations inside the questionnaire
  - mid-March 2014: transfer of final questionnaires to project partners
  - until end of April 2014: data collection and return of completed questionnaires to ITB
  - until mid-June 2014: analysis of questionnaire and documentation of results by ITB
  - until end of June 2014: internal discussion of results and transfer of results to project partners,
  - beginning of July 2014: presentation and discussion of results at the next project meeting
- **Next joint project meeting in St. Petersburg:**
  - Date: June 30<sup>th</sup> to July 4<sup>th</sup>, 2014 (arrival of all participants should be on June 29<sup>th</sup>, 2014 latest),
  - Objectives (according to the original working plan):
    - presentation and discussion of results of questionnaire,
    - seminar, workshop “didactics of e-learning”,
    - seminar, workshop “didactics of ecological education”,
    - seminar on technical aspects of e-learning,
    - dissemination event,
    - coordination meeting
  - Participants: 2 representatives of each partner university, 1 representative of each other member of the project consortium

Please send names and passport data of the participants of this meeting to Dr. Viachaslau Nikitin ([vn@kaufmann-unternehmensberatung.de](mailto:vn@kaufmann-unternehmensberatung.de)) until April 25<sup>th</sup>, 2014 in order to assure that invitation letters can be prepared in time by our St. Petersburg colleagues (as far as visa for Russia will be necessary)
- **Scientific literature on ecological subjects:** Juris Benders/Latvian University Riga reports about interesting free literature for the project. He will provide details about this literature and how to get it in short term.



- e-Learning platforms: Klaus Ruth/ITB, University of Bremen explains an idea of an e-learning platform for the EcoBRU project including the main functions which should be information, discussion, operation and evaluation. For details please consult presentations “30 EcoBRU Bremen Bremer Ruth 20140219 DE.pdf” and “30 EcoBRU Bremen Bremer Ruth 20140219 RU.pdf”.

In the discussion following this presentation it becomes clear that all partner universities are going to run their own e-learning systems. Most of them already have got some experiences with e-learning. Only the following project partners do not use e-learning up to now:

- P7 Vitebsk State Technological University (VSTU)
- P9 Polesky State University (PolesSU)
- P15 Rostov State University of Civil Engineering (RSUCE)
- P17 Novosibirsk Chemical Technology College Mendeleev (NCTC)
- P24 National Academy for Pedagogical Sciences (IVET of NAPS)

We are only allowed to purchase equipment for (academic) higher education institutions. Thus the purchase and establishment of new e-learning systems only can be financed by EcoBRU for P7, P9 and P15.

In each partner country one overall EcoBRU project platform should be developed. These EcoBRU platforms should provide general information about the EcoBRU project as well as specific information about EcoBRU activities and training courses offered by the EcoBRU partners inside the country. Furthermore there should be links to the e-learning systems of the EcoBRU partners inside the countries. A good example for such a platform might be the Ukrainian platform for the TEMPUS project WeNeT which is hosted and maintained by the National Transport University Kiev (<http://wenet.ntu.edu.ua/ru/index.html>).

- Bilateral Agreements with University of Bremen/ITB: In the upcoming weeks bilateral agreements on the organization and arrangement of payments in the framework of the EcoBRU project will be prepared for all project partners by the University of Bremen.
- Workpackage 2: Detailed Analysis and Specification of Qualification Needs, Lead Partner CDV: This workpackage consists of two main parts, the collection and analysis of qualification needs and the publication of the analysis results. The collection and analysis of qualification need will be coordinated and mainly done by ITB, University of Bremen. The publication of the analysis results will be coordinated by P5, CDV. The concrete procedure will be discussed on the project meeting in St. Petersburg in July 2014.
- Workpackage 3: Improvement of Qualification of University Teachers, Lead Partner UNIZA: The project team of UNIZA will elaborate a concept on the evaluation of individual qualification needs of the project teams from the partner countries. This evaluation will be basic for the preparation and organization of study visits at the European partner universities. A precondition for this evaluation will be the results of workpackage 2. Thus the concrete procedure will be discussed on the project meeting in St. Petersburg in July 2014 as well.