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**MINUTES OF THE MEETING and THE WORKSHOP  
(Barnaul, 13-17 February 2017)**

*Organiser: Altai State University*

*Venue: 61, Lenin Avenue, Barnaul, office 519 M*

**Attendees:**

1. Dr Edgar Wagner, Professor, Institute of Biology, Albert-Ludwig University of Freiburg (ALU), Germany (Acting Project Coordinator)
2. Dr Galina V. Telegina, Dr. Dr.hc, Director of Regional Institute for International Co-operation, Tyumen State University (TyuSU), Russia (Project Coordinator for the Partner Countries)
3. Dr. Skoulikaris Charalampos, UNESCO Chair / International Network of Water-Environment Centres for the Balkans – INWEB, Aristotle University of Thessaloniki (AUTH), Greece
4. Dr Athena Economou-Amilli, Professor Emeritus, Faculty of Biology, Department of Ecology & Systematics, National & Kapodistrian University of Athens (UA), Greece
5. Dr. Ioannis Tzovenis, Faculty of Biology, Dept of Ecology & Systematics, National & Kapodistrian University of Athens (UA), Greece
6. Lyailya Akbayeva, Associate Professor, Faculty of Natural Sciences, International Department of Management and Engineering in environmental protection, L.N. Gumilyov Eurasian National University (ENU), Kazakhstan
7. Gulnur Saspugayeva, Associate Professor, Faculty of Natural Sciences, International Department of Management and Engineering in environmental protection, L.N. Gumilyov Eurasian National University (ENU), Kazakhstan
8. Balzhan Medeubayeva, acting head of post-graduate education department, East-Kazakhstan State University named after S. Amanzholov (EKSU), Kazakhstan
9. Zhanat Idrisheva, Associate Professor, Head of the Department of Ecology and Geography, East-Kazakhstan State University named after S. Amanzholov (EKSU), Kazakhstan
10. Vitaly Y. Khoroshavin, Associate Professor, Head of the Institute of Geoscience, Tyumen State University (TyuSU), Russia
11. Prof. Valery A. Zemtsov, Dr. Sc. in Geography, Head of Hydrology Department, Tomsk State University (TSU), Russia
12. Dmitry A. Vershinin, Associate Professor, Hydrology Department, Tomsk State University (TSU), Russia
13. Prof. Elena D. Lapshina, Dr. Sc. in Biology, Head of the Unesco Chair, Scientific and Study Centre “Dynamics of the Environment and Global Climate Change”, Yugra State University (YuSU), Russia
14. Evgeny A. Zarov, Assistant Professor, Department of Biology, Yugra State University (YuSU), Russia
15. Dr. Bella A. Krasnoyarova, Dr. Sc. in Geography, Head of Laboratory of Landscape-Water-Ecological Research and Nature Management, The Institute for Water and Environmental Problems of Siberian Branch of the Russian Academy of Sciences (IWEP SB RAS), Russia
16. Prof. Jury I. Vinokurov, Dr. Sc. in Geography, Chief Researcher, The Institute for Water and Environmental Problems of Siberian Branch of the Russian Academy of Sciences (IWEP SB RAS), Russia
17. Sofia N. Sharabarina, Associate Professor, Laboratory of Landscape-Water-Ecological Research and Nature Management, The Institute for Water and Environmental Problems of Siberian Branch of the Russian Academy of Sciences (IWEP SB RAS), Russia
18. Prof. Gennady Ya. Baryshnikov, Dr. Sc. in Geography, Head of Department of Natural Management and Environmental Geoscience, Faculty of Geography, Altai State University (ASU), Russia
19. Tatyana V. Antiufeeva, Associate Professor, Department of Natural Management and Environmental Geoscience, Faculty of Geography, Altai State University (ASU), Russia
20. Olga N. Baryshnikova, Associate Professor, Department of Physical Geography and GIS, Faculty of Geography, Altai State University (ASU), Russia
21. Olga V. Denisenko, Assistant Professor, Natural Science Department, Chair of Foreign Languages, Altai State University (ASU), Russia

22. Alexandra V. Buskina, Associate Professor, Supervisor of the Educational Portal MOODLE, Altai State University (ASU), Russia

### **13.02.2017**

**TIME: 10.30am – 1.00 pm**

**Opening ceremony. Welcome speeches by the project coordinators and ASU officials.  
Introduction of participants of the coordination meeting.**

Welcome speeches by:

Prof. Gennady Ya. Baryshnikov, Head of Department of Natural Management and Environmental Geoscience, Faculty of Geography, ASU, Russia;  
Roman I. Raikin, Vice-Rector for International Affairs Development, ASU, Russia;  
Nikolay I. Bykov, Head of Faculty of Geography, ASU, Russia;  
Dr Edgar Wagner, Institute of Biology, ALU, Germany, Acting Project Coordinator;  
Dr Galina V. Telegina, Director of Regional Institute for International Co-operation, TyuSU, Russia, Project Coordinator for the Partner Countries.

A summary of the project development at the PC institutions in Russia and Kazakhstan was presented by Dr. Galina V. Telegina (TyuSU, Russia) and Gulnur Saspugayeva (ENU, Kazakhstan).

Feedback report on the official monitoring of the project in Tomsk was presented by prof. Valery A. Zemtsov (TSU, Russia).

Through presentations and panel discussions, participants reviewed the preliminary results and the ideas that came out of the official monitoring of the project. It was agreed that 3 new working groups (WG) will be created for finalizing the work on:

- 1) “Provision of the information resources and data bases”
- 2) “Development of Methodology for Transboundary Water Resources Management”
- 3) “Summarising the needs analysis”

**TIME: 2.15pm – 3:00pm**

First impact analysis. Discussions within working groups.

#### **Main motions:**

It has been confirmed to structure the project content by the following clusters:

- 1) legal and regulatory framework (led by Dr. Bella A. Krasnoyarova, Prof. Anar B. Myrzagalieva);
- 2) physical characteristics (led by Prof. Gennady Ya. Baryshnikov, Gulnur Saspugayeva);
- 3) socio-economic analysis (led by Dr. Bella A. Krasnoyarova);
- 4) environmental dimension (led by Dr. Bella A. Krasnoyarova, Prof. Anar B. Myrzagalieva);
- 5) water resources management (led by Prof. Valery A. Zemtsov);
- 6) electronic resources database (all project participants).

**TIME: 3.00pm – 5.00pm**

A guided city tour around Barnaul.

### **14.02.2017**

**TIME: 10.30am – 1.00pm**

**Co-ordination meeting.**

The coordination meeting focused on summarizing the outcomes of Workpackage 2 “Design of methodology for Transboundary Water Resources Management (TWRM) and Industry-Academia Learning Partnerships (IALPs) building”.

**Presentations were made by the following participants:**

- 1) Dr. Bella A. Krasnoyarova, Head of Laboratory of Landscape-Water-Ecological Research and Nature Management (IWEP, Russia), with an opening presentation on “Institutional Paradigm of TWRM in the Irtysh River basin”.
- 2) Lyailya Akbaeva, International Department of Management and Engineering in environmental protection (ENU, Kazakhstan), with a presentation on “The conceptual framework for TWRM”.
- 3) Balzhan Medeubaeva, Acting Head of post-graduate education department (EKSU, Kazakhstan), with a presentation on “S. Amanzholov East-Kazakhstan State University is promoting stronger partnerships and transfer of knowledge between universities and industry”.
- 4) Prof. Athena Economou-Amilli, Faculty of Biology, Dept of Ecology & Systematics (UA, Greece), with a presentation on “Scientific and educational initiatives in aquatic ecology”.

**Main motions:**

It was suggested to:

- 1) Delegate to Dr. Bella A. Krasnoyarova to lead the working group for updating legal framework of transboundary and transregional water use regulation;
- 2) Delegate to Gulnur Saspugayeva to lead on compiling a database on the regulation of transboundary water resources in the context of international cooperation between Kazakhstan and China;
- 3) For dissemination to prepare publications on principal mechanisms for use and protection of water resources in the Ob-Irtysh basin (all project participants);
- 4) Delegate to Prof. Athena Economou-Amilli to compile a list of training courses in aquatic ecology;
- 5) Review the questionnaire for employers and make final suggestions for its improvement (all project participants).

**TIME: 2.15pm - 5.00pm**

A report on “Potential of the Distance Learning Platform Moodle. Producing modular internet-based courses on Moodle” was presented by Alexandra V. Buskina, Editor of Educational Portal MOODLE (ASU, Russia).

**Main motions:**

The following resolution was adopted:

- 1) Using Moodle capabilities to manage the follow-up project development. Technical support service and tech activities will be provided by Alexandra V. Buskina and Balzhan Medeubaeva.
- 2) Register all project participants on Educational Portal Moodle and create network shared file (carried by Tatyana V. Antiufeeva).

**15.02.2017**

**TIME: 10.30am – 1.00pm**

**Co-ordination meeting.**

The coordination meeting centered on summarizing the outcomes of Workpackage 2 “Design of methodology for Transboundary Water Resources Management (TWRM) and Industry-Academia Learning Partnerships (IALPs) building”. Reports and discussion of the activities in Work Package 2.

**Presentations were made by the following participants:**

- 1) Dr Edgar Wagner, Institute of Biology (ALU, Germany), with a presentation on “Specific features of TWRM in European countries”.
- 2) Vitaly Y. Khoroshavin, Head of the Institute of Geoscience (TyuSU, Russia), with a presentation on “The ‘puzzle catalogue’ of the proposed modules for TWRM: summary of results”.
- 3) Vitaly Y. Khoroshavin, Head of the Institute of Geoscience (TyuSU, Russia), with a presentation on “Strategies for the Industry-Academia Learning Partnerships (IALP) building”.
- 4) Prof. Elena D. Lapshina, Head of the Unesco Chair (YuSU, Russia), with a presentation on “Summary of the project development at Yugra State University”.

**TIME: 2.15pm - 5.00pm**

**Presentations were made by the following participants:**

- 1) Tatyana V. Antiufeeva, Department of Natural Management and Environmental Geoscience (ASU, Russia), with a presentation on “Development of innovative under-graduate course ‘Integrated Water Resources Management and Protection”.
- 2) Dr. Skoulikaris Charalampos, UNESCO Chair / International Network of Water-Environment Centres for the Balkans –INWEB (AUTH, Greece), with a presentation on “Water Education, Key to Water Security”.
- 3) Dr. Ioannis Tzovenis, Faculty of Biology, Dept of Ecology & Systematics (UA, Greece), with a presentation on “Applied Phycology Unit of the University of Athens”.

**Main motions:**

During the discussion following the panelists’ presentations, the meeting decided to:

- 1) create the data bank of TWRM schemes which are being implemented in European countries (carried by Dr. Skoulikaris Charalampos);
- 2) circulate the final draft of the questionnaires for employers among project participants (carried by Prof. Valery A. Zemtsov);
- 3) develop a working group on adaption of training courses content in accordance with European Credit Transfer and Accumulation System (ECTS) (carried by Vitaly Y. Khoroshavin, Prof. Athena Economou-Amilli, Balzhan Medeubaeva);
- 4) organize coordination meeting at Yugra State University in October 2017(carried by Prof. Elena D. Lapshina).

**16.02.2017**

**TIME: 10.30am – 1.00pm**

**Co-ordination meeting.**

Report on “Up-dating the Work Plan for the 2nd year of the project: activities and possible changes, staff mobility. Conclusions and the follow-up activities” was presented by Dr. Galina V. Telegina (TyuSU, Russia).

**Main motions:**

- 1) financial issues management;

- 2) academic mobility, provide a list of participants on the basis of current quotas, deadline – 1<sup>st</sup> March 2017.

**TIME: 2.00pm – 5.00pm**

**Discussions took place at the four working group sessions:**

I group: «Guidance and Learning Unit»

II group: «Legal and Regulatory Framework»

III group: «Constructive Collaboration with Employers»

**Main motions:**

It has been decided that:

- 1) the short list the training modules to be prepared by 1<sup>st</sup> March 2017(carried by Vitaly Y. Khoroshavin);
- 2) electronic resources databases to be developed on educational platform Moodle by 8<sup>th</sup> March 2017 (carried by Dr. Bella A. Krasnoyarova);
- 3) comprehensive analysis of questioning to be reported by 1st March 2017 (carried by Prof. Valery A. Zemtsov);
- 4) The methodology of the courses design, including the ECTS issues, to be further developed and to be summarised at YuSU in October.

**Ceremony of certificates delivery.**