



Co-funded by the
Erasmus+ Programme
of the European Union

MENVIPRO

Modernization of Environment Protection Studies

Programmes for Armenia and Georgia

(598232-EPP-1-2018-1-IT-EPPKA2-CBHE-JP)



II Meeting

1-2 April 2019 Viterbo

4-5 April 2019 Lisboa

Meeting dates: 1-2 April 2019

Location: Università degli Studi della Tuscia, Viterbo (IT)

Attendance: according to the signed attendance sheet

Welcome speech by the Director of the Experimental Farm of the Università degli Studi della Tuscia Professor Giuseppe Colla.

Welcome speech by the project Coordinator Professor Nicolò Merendino.

The project Manager Dr. Angela Fattoretti introduced the participants of each Partner Countries and she managed their presentations.

The session of the meeting started with Dr. Andrey Girenko, who presented the Swot analysis Best practice methodology.

The session continued with the presentations by the Partner Countries:

Dr. ArusyaK Harutunyan introduced the *International Scientific Educational Center of National Academy of Sciences (ISEC NAS RA)* and their accreditation system;

Dr. Shushan Asmaryan, Dr. Olga Beglaryan and **Gevorg Tepanosyan** introduced the *Center for Ecological-Noosphere Studies NAS RA (CENS)*, their research and laboratories;

Dr. Meline Beglaryan introduced the topic on the *Heavy Metal Exposure assessment in Mining Regions of Armenia*;

Prof. Nelli Kutuzyan and **Dr. Marine Hovhannisyan** introduced *Gavar State Unievristy (GSU)* and their accreditation system;

Dr. Irakli Gedevanishvili introduced the *Georgian Research and Educational Networking (GRENA)* and their IT education;

Prof. Avtandil Tavkheldze and **Dr. David Chkhaidze** introduced *Ilia State University (ISU)*, their research activities and laboratories;

Prof. Kakhaber Tavzarashvili and **Prof. Irakli Noselidze** introduced *The University of Georgia (UG)*, their research activities, laboratories and accreditation system.

The last part of the meeting started with the presentations for building the Master Courses in Georgia and Armenia by Programme Countries:

Prof. F.Piedade Carvalho and **Dr. Chiara Baldacchini** introduced the Master Course on *Environmental monitoring and measurement devices*;

Prof. Raffaele Casa introduced the Master Course on *Applied remote sensing for the environment*;

Prof. Sara Marinari and **Dr. Gabriele Guidolotti** introduced the Master Course on *Environmental bio-geochemistry*;

Prof. Sara Marinari introduced the Master Course on *Soil Quality Management*;

The working day concluded with the visit at Università degli Studi della Tuscia departments.

The second day of the meeting was opened by the following presentations:

Dr. Davit Pipoyan introduced the Master Courses on *Environmental risk assessment, Environmental toxicology and Food safety and defence*;

Dr. Angela Fattoretti started her speech by summarizing the main content of project work packages (WP) and tasks. Furthermore, she presented the activities by giving a detailed overview of the Financial management.

The Discussion continued with an overview on the Quality Control Framework and the Accreditation system for updating and building new Master courses programme in the field of the *Environmental Protection* in Armenia and Georgia.

The second day of the meeting concluded with the visit to the *Consiglio Nazionale delle Ricerche. Istituto di Ricerca sugli Ecosistemi Terrestri Centro Nazionale della Ricerca* (CNR-IRET) in Porano.

Welcome speech by the Acting Director of CNR IRET Dr. Carlo Calfapietra

The meeting concluded with two presentations and discussion:

Dr. Silvia Portarena introduced the Master Course on *Environmental Statistics*;

Dr. Gabriele Guidolotti introduced the Master Course on *Applied Ecology in Urban Environments*

Meeting dates: 4-5 April 2019

Location: Instituto Superior Técnico/Campus Tecnológico Nuclear (IST/CTN) of the Universidade de Lisboa

Objectives

The objectives of this meeting included to continue discussions initiated in the meeting in Università degli Studi della Tuscia, Viterbo, and to make decisions regarding the planning and best approach for the next phase of activities. Visits were organized for participants to the laboratories in the Instituto Superior Técnico/ Campus Tecnológico e Nuclear with emphasis on those working on radiation protection, environmental radioactivity monitoring, and nuclear physics.

Presentations were made by participants from the Lisbon University, with support of power-point presentations to exemplify the development of Master course contents in the University of Lisbon and how they have been implemented and accredited according to the Bologna Process.

Prof. Teresa Rebello introduced the Master Course on Environment and Health. This course aims at giving Master students a broad knowledge on pollution from anthropogenic origin that is detrimental to ecosystem health and to human health through environmental transfer pathways.

Prof. Maria Teresa Carvalho introduced the Master Course on Geological Engineering and Mines. This course aims at preparing the Master students to understand mining engineering works, geochemistry and mining environmental impacts, remedial works, and protection of the environment.

Prof. Madalena Fonseca from the Accreditation Agency (A3ES) introduced the Bologna Process and the methodology used in Portugal for monitoring quality of the higher education courses and accreditation. Furthermore, she answered to all questions regarding preparation of new courses and Bologna Process and maintained a useful dialog to enlighten participants on the Bologna Process.

Dr. Fernando P. Carvalho delivered two presentations about environmental radioactivity monitoring and sampling instruments used for analytical work and environment quality monitoring.

Discussions during the meeting

Delegates from the several participating countries all delivered contributions to this meeting, including presentation of Swot Analysis for higher education courses in Armenia, and the methodology approved in Armenia and Georgia to adhere to the Bologna Process.

Methodologies used in course development were discussed with emphasis on SWOT analysis. Exchange of experience among participants from the several participating countries was intensive and fruitful.

Project partners from Halle University, Germany, that were not physically present in this meeting participated in the discussions through video conference.

Conclusions

The MENVIPRO partners in this meeting and workshop agreed on the following:

1. to develop comparisons of course contents implemented in European countries on the subjects of interest to this project, in particular on environmental radiation protection;
2. to organize in the framework of MENVIPRO two Summer Schools, one in Georgia in 2020 and another in Armenia in 2021.

These Summer Schools shall:

- a) target Master and PhD students but may also accommodate professors and researchers interested in the contents of the Summer School;
 - b) allow the content of the two Summer Schools to be different and must in priority address the teaching needs of the host country;
 - c) each Summer Schools shall be planned to include theoretical modules and laboratory (practical) modules, namely to introduce and use instruments purchased by the project.
3. to organize the next meeting of the project in Tbilisi, Georgia, next October 6-9.

Annex 1 – Agenda of the meeting

Annex 2 – Signed Attendance Sheet in Viterbo

Annex 3 – Signed Attendance Sheet in Lisboa