



International Summer School
on
LAND DEGRADATION AND SUSTAINABLE LAND USE
Slovak University of Agriculture, Nitra, Slovak Republic
26th June – 1st July 2017

Description of the programme:

The “International Summer School on Land degradation and Sustainable Land Use” will be held from **26th June to 1st July, 2017** at the Slovak University of Agriculture in Nitra, Slovak Republic.

The summer school is organized within the frame of the project IUCLAND (International University Cooperation on Land Protection in European-Asiatic Countries), no. 561841-EPP-1-2015-1-IT-EPPKA2-CBHE-JP, www.iucland.eu and will be held as an intensive course on land degradation problems connected with the negative influences of intensive agriculture, forestry, industrial and urban activities, incorrect water management practices and other practices with negative influences on soil, water, forest, and another ecosystems of the land. Political and legal backgrounds will also form a significant part of the programme.

The Summer School is supported by the Education, Audiovisual and Culture Executive Agency (EACEA) and it involves 12 Partners:

- P1) Università degli studi del Molise, Italy - coordinator
- P2) Slovak university of Agriculture in Nitra, Slovakia - programme country
- P3) University of Zagreb Faculty of Agriculture, Croatia - programme country
- P4) FORMIT, Italy - programme Country
- P5) Huazhong Agricultural University, China - partner country
- P6) Institute of Soil Science, Chinese Academy of Sciences, China - partner country
- P7) Fujian Normal University, China - partner country
- P8) Kyrgyz State Technical University named after I. Razzakov, Kyrgyzstan - partner country
- P9) Osh Technological University, Kyrgyzstan - partner country
- P10) East-Kazakhstan State Technical University, Kazakhstan - partner country
- P11) studiogiuliano srl, Italy - partner country
- P12) M. Auezov South Kazakhstan State University, Kazakhstan - partner country

Learning model: 40 hours

Mandatory lectures

Specific lectures

Practical exercises and excursions

Attendance is mandatory. To achieve satisfactory attendance a student must attend both scheduled lectures and planned training activities.

Evaluation is based on individual/group work, presentations and common final discussion



Credits: 4 ECTS credits

Aim: To increase theoretical and practical knowledge on Land Degradation and Sustainable Land Use

Lecturer: Specialists from the Slovak University of Agriculture in Nitra

Participants: 30 students (3 students from every IUCLAND partner university). In case of interest, additional 10 students from the Slovak University of Agriculture will be able to attend lectures and participate at the discussion without obtaining credits and being part of the evaluation process.

Minimum requirements for students: good level of English language (at least B2 level), students of bachelor ,master/PhD. degree

Local coordinator in Slovakia:

prof. Anna Bandlerová (coordinator):	anna.bandlerova@gmail.com
Kamila Moravčíková (assistant):	kami.moravcikova@gmail.com
Contact:	cip@uniag.sk

Board of Directors:

Head: Prof. RNDr. Pavol Bielek, DrSc.,
Prof. Ing. Dušan Húska, PhD.,
Doc. JUDr. Lucia Pašová, PhD.,
Doc. Ing. Luboš Jurík, PhD.,
Prof. JUDr. Anna Bandlerová, PhD.,

Payment of tuition: No registration fee is required.

Useful information: All practical information such as accommodation, meal, how to get to Nitra, etc. will be provided latest by 5th June 2017 via e-mail and posted on the website: <http://www.fesrr.uniag.sk/en/summer-school-land-degradation-in-slovakia-nitra-slovakia-date-2606-01072017/>.

Applications & Deadlines:

Slovak candidates will be evaluated based on the educational qualification (the score of academic records), CV, motivation letter and/or interview;

Foreign candidates will be evaluated according to the criteria set by appropriate partner institutions. There are 3 participating students and 1 lecturer from each partner university.

Please send the List of selected participants to:

prof. Anna Bandlerová	anna.bandlerova@gmail.com
in copy to Kamila Moravčíková	kami.moravcikova@gmail.com
E-mail	cip@uniag.sk



Deadlines:

For Italy and Croatia latest by the end of **May 2017**.

For China, Kyrgyz and Kazakhstan latest by **10th April 2017** - due to visa procedure

Preliminary programme of the Summer School in Nitra

26th June 2017 (Monday), 6 hours

08:00 - 10:00 Opening session (introduction, questions, answers), Land ownership and land tenure in Slovakia)

(Prof. A. Bandlerová, SUA in Nitra)

10:00 – 12:00 Land degradation problems. General views. Threats for soils. Threats from soils. Evaluations. Concept of ecosystem assessments.

(prof. P. Bielek, SUA in Nitra)

12:00 – 13:00 Lunch break

13:00 – 15:00 Water management and landscape planning

(assoc. prof. Ľ. Jurík, SUA in Nitra)

27 June 2017 (Tuesday), 6 hours

09:00 – 11:00 Forest ecosystem in land protection and sustainable land use

(prof. E. Pierzgaliski, Forest research Institute, visiting professor)

11:00 – 13:00 Legal framework for soil and land protection

(assoc. prof. L. Paľšová, SUA in Nitra)

13:00 – 14:00 Lunch break

14:00 – 16:00 Political framework (CAP and national measures) of land use and protection

(prof. P. Schwarcz, SUA in Nitra)

28.06.2017 (Wednesday), 7 hours

09:00 – 11:00 Land consolidation as tool of sustainable land use and protection

(assoc. prof. Z. Muchová, SUA in Nitra)

11:00 – 13:00 The role of erosion processes in land and water degradation

(prof. D. Huska, SUA in Nitra)

13:00 – 14:00 Lunch break

14:00 – 16:00 Water management and soil use practices

(prof. P. Bielek, SUA in Nitra)

16:00 – 17:00 Training Visit of Biotechnology Scientific Centre in SUA Nitra

29th June 2017 (Thursday), 3 hours

09:00 – 11:00 Soil information system as tool of land protection

(prof. P. Bielek, SUA in Nitra)



11:00 – 12:00 Introduction to individual students' presentation

12:00 – 13:00 Lunch break

13:00 – 19:00 Individual work on the students' presentations

30.06.2017 (Friday)

08:00- 20.00 Field Trip

01.07.2017 (Saturday), 6 hours

09:00 – 12:00 Students' presentations and discussion

12:00 – 13:00 Lunch break

13:00 – 15:00 Participants: Discussion and comments on content and quality of the summer school (filling out of evaluation questionnaire).

Board members: Evaluation of the students' presentations and attendance

15:00 – 16:00 Certificate ceremony

Short annotations to the programme

Land degradation problems. General views. Threats for soils. Threats from soils. Evaluations. Concept of ecosystem assessments.

Content: Short historical review, driving forces and knowledge development. EU and national perception of land functions protection. Principles of ecosystem assessment concept and its applications in environmental practices. Concept of indicators. DPSIR model. Threats for soil degradations. Soil as threat for land degradation as a whole. Related limits, benchmarks, regularities.

Water management and landscape planning

Content: Water contents in nature. Water sources, water balances, water distributions in nature. Water regulations and water management principles by different sectors of land use. EU water framework directive. Water quality monitoring and control. Limits, benchmarks. Sensitive and critical areas. Nitrate directive applications. Flood and drought problems. Desertification.

Forest ecosystems in land protection and sustainable land use.

Content: Forest as significant part of the nature. Characteristics of different forest ecosystems. Sustainable development of forest areas. The protective functions of forests. Principles of forest management practices. Interaction between forest and water circulation in watershed. Direct and indirect effects of climate change on forest and water resources. EU

and national forest and water policies. Threats to sustainable forest development and examples of projects mitigating these threats.

Legal framework for soil and land protection

Content: Land protection in EU – principles, legal documents and measures. Integration- Inclusion of land protection principles into the policies on both domestic and EU levels. Land protection in SK, legal documents, implementations, functions, advisory services, control and sanctions, support systems. Examples, facts and figures, evaluations.

Political framework (CAP and national measures) of land use and protection

Content: Objectives and pillars of EU CAP. History of CAP (limestones). Fischler reform. CAP funding. Agri-environmental principles. Cross-compliance. Implementations in SK. Advisory, supports and controls. Information systems. Examples of Slovak practices.

Land ownership and land tenure

Content: Presentation focused on concrete data of development about land tenure as influenced by political changes (after 1989) in Slovakia. Legal frameworks principles of ownership restoration to soil and procedures to do it. Real state, experiences and expectations for the future. Evaluation of impacts on land use, agricultural practices and land quality development including some possible degradations. Not identified owners, land purchasing principles, user rights, renting of land, soil price and another items of the new land policy in Slovakia will be presented.

The role of erosion processes in land and water degradation

Content: Soil erosion as most dangerous threat for soil in Slovakia. Principles, conditions, factors and another land parameters of soil erosion. Soil use changes and land design modifications under threats of soil erosion. Water pollution as result of erosion. Decrease of land function potentials. Legal and physical protections against land erosion.

Water management of land by soil use practices

Content: New specific approaches of land water management by measures of soil use practices will be presented. Subsoiling, deeper plowing, composting and no till farming have been verified as measures for better water infiltration into the soil and water saving in the country. Field results from 4 countries will be presented with concrete recommendations for agricultural practices.

Land consolidation as tool of sustainable land use and protection.

Content: Methods, principles and parameters of legal documents will be presented as backgrounds for land consolidation carrying out in Slovakia. It is too important activity in Slovakia because of soil ownership restorations (after 1989) and new land design needs. Specific impact of land consolidation on land protection will be evaluated as well.

Soil information system as tool of land protection

Content: Practical exercise (electronical communication) on soil information system creation and use will be held in this part of summer school.

Study materials:

- Each student will receive a CD containing all PowerPoint presentations as well as Baseline study materials
- Each participant will receive the book:
Bandlerová, A. - Bielek, P.-Schwarcz, P.- Palšová, L.:EU land policy „The pathway towards sustainable Europe“. SUA Nitra, 2016, 221 pp., ISBN 978-80-552-1591-4