

**Report on the results of Scientific and Research activities at the FESRD  
2013**

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Material Report on the results of Scientific  
and Research activities at the FESRD 2013  
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- with comments  
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## **1 INTRODUCTION**

Report on the scientific and research activities at the FESRD for 2013 focuses on quantitative and qualitative analysis of the level of scientific and research activities at the whole faculty and also at its departments. It indicates strengths and weaknesses of the research in order to find ways to strengthen the position of science and research at the faculty. It is processed according to the structure presented by the Rectors Office of Science and Research of the Slovak University of Agriculture in Nitra.

## **2 CONTENT, PERSONAL, MATERIAL, TECHNICAL AND FINANCIAL PROVISION OF SCIENTIFIC AND RESEARCH ACTIVITIES AT THE FESRD IN 2013**

### **2.1 POSITION OF RESEARCH ACTIVITIES OF FACULTY'S DEPARTMENTS IN NATIONAL AND INTERNATIONAL CONTEXT**

#### **2.1.1. Profile of research activities of faculty**

##### **Profile of research departments and characteristic of their research focuses**

Research profile of faculty's departments and their research activity in 2013 was focused as follows:

##### **Department of Law (DL)**

- effectiveness of administrative procedure of government bodies in trade business, analysis of quality and flexibility of services in the area of trade business from the perspective of businessmen,
- issue of support for agricultural cooperatives in the states of EU,
- agricultural land market -ownership and user relationship to the agricultural land,
- agricultural land protection - legal institutions in soil protection, in withdrawal of agricultural land,
- intellectual property rights in the project Agrobiotech, AgroBioTechTransfer Center.

##### **Department of Regional and Rural Development (DRaRD)**

- investigation of conditions and possibilities of creative economics in rural areas,
- examination of the socio-economic disparities of rural development
- creation of regionalist conceptions in the context of rural and peripheral areas.

##### **Department of Public Administration (DPA)**

- evaluation of providing public services in Slovakia in accordance with the new approach to understand the provision of public services,
- creative economy impact at regional and national economic conditions and incentives
- mapping of development of theories in the field of creative economy,
- identification of the determinants of quality of surface runoff from small floods in altered climate conditions of the country.

##### **Department of European Policies (DEP)**

- impact of support mechanism of the EU Common Agricultural Policy on the agricultural land market in Slovakia,

- support policy of agricultural commodities market through producer groups,
- new European standards in the context of the reformed Common Agricultural Policy
- EU policy in area of business support of small and medium-sized enterprises and innovation policy,
- development of economic and social disparities between the EU countries and regions.

#### **Department of Ecology (DE)**

- biodiversity research - knowledge of interactions at different levels of biodiversity contributing to a better understanding of ecosystems and the creation of useful benefits like ecosystem services under changing environmental conditions, including climate change
- research on ecological requirements of fast-growing herbs and plants grown for energy purposes. Screening of genotypes with fast growth, with ability to adapt to climatic conditions, with high quality biomass and environmental benefits
- agro-ecosystem structure research, its functions and processes, the importance and utility of ecosystem services and the value of outputs.

#### **Department of Sustainable Development (DSD)**

- biodiversity research - knowledge of interactions at different levels of biodiversity that contributes to a better understanding of ecosystems and the creation of useful benefits like ecosystem services under changing environmental conditions, including climate change,
- research on agro-ecological requirements of fast-growing herbs and plants grown for energy purposes. Screening of genotypes with fast growth, with ability to adapt to changing climatic conditions, with high quality biomass production and ecological benefits for the environment,
- agro-ecosystems structure research, their functions and processes, the importance and utility of ecosystem services and the value of output.

#### **Center of bioenergy research (CBR)**

CBR was founded in an effort to integrate and intensify research activities of the faculty in the field of biomass energy. Workplace addresses research and application-oriented projects to the area of renewable energy sources and efficient conversion of biomass into clean energy carriers. Research focused on improving methods for generating renewable energy belongs among the priorities in the European and the Slovak Research Area. Laboratories of the center are equipped with top analytical technology that allows assessment of the suitability of biomass for energy purposes through biochemical conversion technology, as well as with unique test equipment for conducting long-term operating experiments in conditions of agricultural farm. CBR has also analytical technology for assessing the quantity and quality of produced biogas and experimental facilities for processing, compression and usage of processed biogas as highly valuable, ecological and alternative fuel for motor vehicles.

#### **The research concept of the faculty**

The research concept of the faculty is linked with the principles, objectives, programs and direction of the European Union in the field of rural development strategies and rural regions. The intention of the research is to solve the problems of the Slovak countryside, as a functional territorial unit of sustainable development and as a space with great potential biological, economic and spiritual diversity.

The subject of the research is sustainable rural development in the context of economic and social objectives and environmental instruments penetration into these policies. The

conception in long-term context will increase the economic value of the environment and of the investments into it on behalf of sustainable rural development.

The research on sustainable rural development is developed in three dimensions, which are interrelated:

#### *Economic sustainability*

The research on sustainable rural economic growth, on the principle of resource efficiency and the rational use of raw materials, the identification of impact of factors on the functions of life in rural areas, in particular the current production activities. The innovation of procedures and the impact of innovative projects and support mechanisms of the Common Agricultural Policy. The research on possibilities of the formation of farmer producer organizations in terms of the legal aspects of competition, tax regulations and support measures to ensure a stabilized market income. The concept of the creative economy is developing. The output of the research is the determination of the current state, of the potential and of the ways of rural regeneration.

#### *Environmental sustainability*

The research on renewable energy sources and the deliberate production of energetic biomass. The impact of the cultivation of energy crops on climate change, mitigate the consequences of climate change of agricultural land, changes of countryside ecology and land use changes. The research on integrity of ecosystems, ecosystem services, biodiversity conservation, evaluation and protection of endangered habitats. The research on flood control and pollution caused by discharges from point sources.

#### *Social sustainability*

The research on quality of life and standard of living in rural areas by establishing the determinants of quality. The evaluation of rural infrastructure, its potential and its utilization. The research on the role of social and human capital in the development of rural areas and rural municipalities and the identification of appropriate tools to support the development of social capital. The assessing of the importance of natural environment / environment on the quality of rural people life.

### **2.1.2 Involvement in the international networks**

Faculty was in 2013 involved in 6 international networks within then international cooperation. Partners in the framework of these networks were universities and research departments from all over Europe. The Faculty has been involved in these networks:

#### **1. SAMBA trials network (2009 – present)**

Department of Sustainable Development is involved in the international research program SAMBA trials, focused on the verification of production potential of 43 new breeding clones of fast-growing tree species of *Salix* and *Populus*. Partners of the project are:

- Swedish University of Agricultural Science in Uppsala,
- Lantmännen Agroenergi AB (Sweden),
- University of Sussex (Great Britain),
- University degli Studi di Foggia (Italy),
- **SUA Nitra (Department of Sustainable Development),**
- Research Institute for energy plants in Cavallermaggiore (Italy),
- Research Institute in Bracanca (Portugal),

- Research and Breeding Institute for Ornamental and Energetic Trees Silvanus, Kapuvár (Hungary).

## **2. COST- Protection and usage of halophytes – No. COST FA 0901(2009-2014)**

Into the network of 54 European and extra-European centers (Great Britain, Belgium, Spain, Poland, Israel, Tunisia, Pakistan, etc.) is involved Department of Sustainable Development. The aim of the project is collection of existing knowledge about the functions and use of halophytes – from genes to ecosystems - regarding to the protection and management of salinas habitats and to the agricultural production. The output of the project will be also the formulation of challenges for future research at the European level.

## **3. COST Innovative management and multifunctional utilization of traditional coppice forests – No. FP 1301 (2013-2017)**

The network involves over 30 major European offices (Sweden, Belgium, Austria, Denmark, Switzerland, etc.). Slovak Republic is represented by representatives of the Department of Sustainable Development. The event aims to bring together European scientists, experts and young researchers in order to exchange the knowledge about coppice forests and plantations of fast-growing tree species as well as to initiate the development of innovative management and utilization of concepts (technology) for future advanced multifunction systems of coppice woody plant species management. The aim of the network is the study of ecological, economic and social aspects of studied type of forestry management and the development of innovative and multifunctional use of coppice forest plantations and plantations of fast-growing tree species.

## **4. COST Euro Agriwat – No. ES 1106 (2013-2017)**

In the network of 29 European offices (UK, Belgium, Austria, Denmark, Switzerland) is involved Department of Ecology. The network is focused on the evaluation of water influence (water footprint (WF)) and virtual water trade (VWT) of basic food and non-food agricultural products, including the assessment of uncertainties, as well as possible scenarios of WF and VWT development in changing climate conditions. The use of modern means and databases such as remote sensing, agro-climatic modeling and high resolution databases form the basis for the project.

## **5. Network within the project of 7<sup>th</sup> Framework Program – No. 609531 (NaGAP) - project coordinated by another workplace (principal investigator Dr.h.c. prof. Ing. Peter Bielik, PhD)**

Knowledge Transfer Community to bridge the gap between research, innovation and business creation. The consortium consists of 13 organizations from 6 countries (Germany, Romania, Slovak Republic, Belarus, Ukraine, Georgia) with the aim of improving mobility between research, business and innovation including mutual tandem interconnection between research organizations and innovation support services related to the societal challenge - safe, clean and efficient energy.

## **6. Network within the project of 7<sup>th</sup> Framework Program FP7-REGPOT-2011-1 STAR AGROENEGRY (Star Agroenergy 2011-2015)**

Department of Sustainable Development is involved in the network created within the project of 7th Framework Program, which has the aim to strengthen research capacity within renewable energy sources by creating a Center for the field of agro energy. The partners of the project are:

- University of Foggia (Italy),
- National Technical University of Athens (Greece),
- Stockholm Environment Institute (Sweden),
- University of Cordoba (Spain),
- **SUA Nitra (Department of Sustainable Development),**
- University of Zaragoza (Spain)
- Wageningen University (The Netherlands).

Table 1: Departments of the FESRD according to their participation on research tasks and thematic focus

Projects focus	DRaRD	DL	DEP	DPA	DE	DSD	CBR
Ecology and environment				*	*	*	*
Protection of natural resources		*			*	*	*
Renewable energy sources			*		*	*	*
Climate changes					*	*	*
Protection and development of the country							
Management and marketing				*			
Rehabilitation and development of rural communities	*						
Slovak agriculture and the EU		*	*			*	
Cultivation systems and production					*	*	
Social aspects and agrarian policy			*				
Other: Regional economy and development of rural areas							
Public administration				*			
Creative economy	*						
Efficiency of the administrative procedure		*					
Agribiotechnologies		*					*
Agrarian law		*					
Rural tourism	*						

### 2.1.3 FESRD research activities compatibility with EU priorities

The most compatible research areas at FESRD in accordance with the priority areas of the EU include the following:

- projects aimed at combating the effects of climate change, land use optimization in relation to sustainable agriculture and assessment of sustainable development indicators of agricultural land, verifying of production potential of fast-growing energy crops and herbs and thermal energy production from wet biomass are realized in accordance with the National Action Plan for energy from renewable sources in 2010.
- projects of the Department of Law, of European Policies, of Regional and Rural Development and of Public Administration are in accordance particular with the conception Europe 2020 strategy.

## 2.2. STRUCTURE OF THE SCIENTIFIC AND RESEARCH PROJECTS AT THE FESRD AND MAIN ACHIEVEMENTS

### Overview of the research projects realized at the FESRD according to categories

There were 43 projects realized at the Faculty of European Studies and Regional Development in 2013. Structure of the projects is as follows:

- **research projects** **19**  
in the frame of International cooperation 6
- **educational projects** **21**  
in the frame of International cooperation 21
- **practice requirements** **3**

Most of the projects can be characterized as a basic research. The departments were involved in research projects SGA in 2013 (Table 2), 5 departments coordinated 8 SGA projects (out of them 1 in the cooperation with SAS). There was no individually implemented SGA project at the Department of Law in 2013. On the other hand many members of this Department are involved in the SGA research projects of other departments. Department of Regional and Rural Development solved SRDA project (in cooperation with Department of Public Administration). Projects of the applied research and projects of social order had smaller representation in the structure of research. 2 projects of social order are realized at the Department of Regional and Rural Development and 1 at CBR. The ratio in this field is 0, 98 projects on 1 creative employee and 0, 43 research projects on 1 creative employee.

Table 2: Forms of the projects, overview 2013

Form of the project	DRaRD	DL	DEP	DPA	DE	DSD	CIP	CBR	FESRD
<b>1. Individual projects coordinated by departments of FESRD</b>									
(a) grant SGA	1		2	1	2	1			7
completed in year 2013			1	1					2
(b) institutional (GA SPU/FESRD)									
(c) solved in the framework of economic activity	2							1	3
(d) scientific-technical STH, AR/SRDA	1								1
(e) 7th framework program of the EU						1			1
(f) in the framework of international STC									
(g) other international scientific		1			1	3			5
<b>2. Individual projects realized in cooperation</b>									
(h) in cooperation with Slovak Academy of Sciences (financed by Ministry of Education of SR)					1				1

(i) in cooperation with other partners					1				1
in cooperation with other resorts									
<b>3. Grant CEGA (j)</b>				1					1
<b>4. Development projects (k)</b>									
<b>Other</b> (specific under the table)		8	5			5	4	1	23
<b>Total (except of SUA grants)</b>	<b>4</b>	<b>9</b>	<b>7</b>	<b>2</b>	<b>5</b>	<b>10</b>	<b>4</b>	<b>2</b>	<b>42</b>
The share of projects addressed to a creative employee	0,5	1,3	1,4	0,2	0,7	1,6	4	2	0,9

CE = Prof. + Assoc. prof. + Teaching staff with PhD. for the appointed time 37,5 hours a week (100% of working time)

In 2013, we noticed an increase in the number of solved research projects being changed form of the project implementation, as follows:

- There was an increase in the number of SGA projects - of 3 projects. At the same time three new SGA projects were submitted by the departments of the faculty,
- DSD and DE were involved in two new networks in the framework of COST,
- The participation in international research projects increased.
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Departments of Faculty of European Studies and Regional Development were involved in 6 international research projects in 2013 (Table 4). International research projects were realized at the Department of Sustainable Development, at the Department of Ecology and at the Center of bioenergy research.

Table 4: International research projects solved at the departments of the FESRD

Program (project)	DRaRD	DL	DEP	DPA	DE	DSD	CIP	CBR	FESRD
COST					1	2			3
FP 7						1			1
EU tender									
IRTC						1			1
Other- specify									
Jean Monnet		1							1
<b>Total</b>		<b>1</b>			<b>1</b>	<b>4</b>			<b>6</b>

### 2.2.1 7th Framework Program of the EU (2 projects)

Project number: FP7-REGPOT-2011-1 STAR-AGROENERGY

Project title: **Scientific & Technological Advancement in Research on Agro-energy: an integrated approach to renewable energy generation according to sustainability criteria**

Coordinator: doc. Ing. Alexander Fehér, PhD.

Project realization: 2011- 2013

Project soled in participation:

Project number: 609531

Project title: **NoGAP“ - Knowledge Transfer Community to bridge the gap between research, innovation and business creation**



Coordinator: Dr. h. c. prof. Ing. Peter Bielik, PhD.  
Methodical coordinator: prof. Ing. Ján Gaduš, PhD.  
Project realization: 2013- 2016

### **2.2.2 Other International Projects (5 projects)**

#### **COST (3 projects)**

Project number: COST FA 0901  
Project title: **Putting halophytes to work- from genes to ecosystems**  
Coordinator: doc. Ing. Alexander Fehér, PhD.  
Project realization: 2009 – 2014

Project number: FPS COST Action FP1301  
Project title: **Innovative management and multifunctional utilization of traditional coppice forests – an answer to future ecological, economic and social challenges in the European forestry sector (EuroCoppice)**  
Coordinator: doc. Ing. Alexander Fehér, PhD.  
Project realization: 2013 – 2017

Project number: ES 1106  
Project title: **Euro-Agriwat**  
Coordinator: prof. RNDr. Bernard Šiška, PhD.  
Project realization: 2013 – 2017

#### **IRTC (1 project)**

Project number: 34-IDMP-2013  
Project title: **Global Water Partnership in Central and Eastern Europe – Integrated Drought Management Programme**  
Coordinator: prof. RNDr. Pavol Bielek, DrSc..  
Project realization: 2013 – 2015

#### **Jean Monnet (1 project)**

Project number: 542600-LLP-1-2013-1SK-AJM-PO  
Project title: **Centre of Excellence - EU Land Policy - the pathway towards sustainable Europe**  
Coordinator: prof. JUDr. Anna Bandlerová, PhD.  
Project realization: 2013 - 2016

### **2.2.3 Projects realized in the framework of Slovak Research and Development Agency (SRDA) and projects of applied research (AR) (1 project)**

Project number: APVV-0101-10

Project title: **KRENAR Creative economy – National economic and regional conditions and stimulus**

Coordinator: doc. Ing. Mária Fáziková, CSc.

Project realization: 2011 - 2014

#### 2.2. 4. Projects realized in the framework of SGA and CEGA (8 projects)

Table 5: Historical overview of SGA and CEGA projects at FESRD

Year	DRaRD	DL	DEP	DE	DSD	DPA	FESRD
2004	1			1			2
2005	1	1			1		3
2006	2	2	1		1		6
2007	1	3	1		1		6
2008	2	2	3		1		8
2009	1	2	1		1		5
2010	2	1	1	2			6
2011	1	1	2	2		1	7
2012		1	1	1	1	1	5
2013	1		2	3	1	2	9
Total	12	13	12	9	7	4	57

Project number: 1/1170/11

Project title: **Anthropogenic impact on quality and creation of surface drains from small basins under the conditions of changed climate**

Coordinator: Dr.h.c. prof. Ing. Dušan Húska, PhD.

Project realization: 2011- 2013

Project number: 1/0876/11

Project title: **CAP support mechanism impact on agricultural land market in Slovakia**

Coordinator: Ing. Ivan Takáč, PhD.

Project realization: 2011 – 2013

Project number: 1/1220/12

Project title: **Modeling the growth of energy crops grown in climates of southern Slovakia**

Coordinator: prof. RNDr. Zuzana Jureková, CSc.

Project realization: 2012 – 2014

Project number: 1/0942/12

Project title: **Varietal conditionality of production and energy capacity of fast-growing tree species Salix and Populus in the first and second three-year harvesting cycle and of energy plant Miscanthus in land and climate conditions of south-western Slovakia**

Coordinator: Ing. Pavol Otepka, PhD.

Project realization: 2012 – 2014

Project number: 2/0117/13

Project title: **Evaluation of the state and dynamics of biotopes using modelling and remote sensing**

Coordinator: RNDr. Ľuboš Halada, CSc., Institute of Landscape Ecology, SAS  
Coordinator at FESRD: prof. RNDr. Bernard Šiška, PhD.  
Project realization: 2013 – 2016

Project number: 1/0872/13  
Project title: **Effect of association of agricultural holdings and farms through producer organizations to increase the competitiveness of the agricultural sector**  
Coordinator: prof. Ing. Pavol Schwarcz, PhD.  
Project realization: 2013 – 2015

Project number: 1/0685/13  
Project title: **Driving forces of the development of rural regions**  
Coordinator: doc. Ing. Mária Fáziková, PhD.  
Project realization: 2013 – 2015

Project number: 1/0857  
Project title: **Ecosystem services in rural landscape and their usability**  
Coordinator: prof. RNDr. Pavol Eliáš, CSc.  
Project realization: 2013 – 2016

#### **CEGA (1 project)**

Project number: 031SPU-4/2013  
Project title: **Economics and Management of Public Services**  
Coordinator: Ing. Eva Balážová, PhD.  
Project realization: 2013 – 2014

#### **Results of projects coordinated by FESRD ending in 2013**

##### **SGA**

Project number: 1/1170/11  
Project title: **Anthropogenic impact on quality and creation of surface drains from small basins under the conditions of changed climate**  
Coordinator: Dr.h.c. prof. Ing. Dušan Húska, PhD.  
Project realization: 2011- 2013

##### Results of project:

Within the project was carried out the analysis of the dynamics of settlements development, analysis of surface water quality in Žitava and its tributaries, the identification of loads in the area and condition of riparian vegetation. The project also evaluated the quality of surface waters where the increased load is mainly caused by natural effects and mineral waters, lower efficiency of sewage treatment plant has been also demonstrated, a trend of gradual deterioration of water quality in the stream starting from the source is persisting.

Project number: 1/0876/11  
Project title: **CAP support mechanism impact on agricultural land market in Slovakia**  
Coordinator: Ing. Ivan Takáč, PhD.

Project realization: 2011 – 2013

Results of project:

The results obtained from the completed project SGA contributed to the improvement of basic research in relevant scientific field by determining the impact of selected factors in the price of agricultural land. Establishment of the benefit extent of different actors from agricultural transfers designed for the farmers themselves. The impact of legal standards on economic behavior of landholders carrying out business activities in agriculture. The research results were presented at national and international scientific conferences and seminars.

## **2.2. 5 Projects based on state orders and requirements of practice (3 projects)**

Project number: 116/2013/SPU

Project title: **Quality evaluation of rural tourism facilities**

Coordinator: doc. Ing. Jana Jarábková, PhD., doc. Ing. Mária Fáziková, CSc.

Project realization: 2013

Project number: 439/2013/SPU

Project title: **Harmonization of education in the Nitra region in accordance with the requirements of the labor market**

Coordinator: doc. Ing. Mária Fáziková, CSc.

Project realization: 2013

Project number: 485/2012/SPU

Project title: **Professional supervision in designing and putting into service of a biogas station Budča**

Coordinator: prof. Ing. Ján Gaduš, PhD.

Project realization: 2012 - 2013

## **2.2.6 Other (23 projects)**

Most of the other projects have an educational character, but putting them in the context of research activity of the faculty is, based on past experience, considered as an important platform for the creation and development of joint research activities within international consortia.

## **Structural Funds EU (2 projects)**

### **European Social Fund, OP Education**

Project number: 26110230085

Project title: **Development of international cooperation with the aim to transfer the results of research into the educational programs**

Coordinator: prof. JUDr. Anna Bandlerová, PhD.

Project realization: 2013 - 2015

### **OP Research and Development**

Project number: 074/2010/2.2/OPVaV

Project title: Production of thermal energy from wet biomass

Coordinator at SUA: prof. Ing. Ján Gaduš, PhD.

Project realization: 2013 – 2015

### **Erasmus Mundus** (3 projects)

Project number: 2010-0114-R04-018/001

Project title: **IMRD - International Master of Science in Rural Development (II.)**

Project coordinator: prof. JUDr. Anna Bandlerová, PhD.

Project realization: 2010 – 2015

Project number: 19139-EM-1-2010-1-NL-ERA MUNDUS-EMA21

Project title: **CASIA-geographical window-Lot9 Central Asia**

Project coordinator: doc. Ing. Loreta Schwarczová, PhD.

Project realization: 2010 - 2014

Project number: 545730-EM-1-2013-1-NL-ERA MUNDUS-EMA2

Project title: **TIMUR - Training of Individuals through Mobility from Uzbek Republic to EU**

Project coordinator: Ing. Norbert Floriš

Project realization: 2013 – 2017

### **Erasmus Intensive Programme** (2 projects)

Project number: 2011-1-HU1-ERA10-07233

Project title: **Sustainable Development Through Ecological Cycles (EcoCycles)**

Coordinator at SUA: Ing. Pavol Otepka, PhD.

Project realization: 2010 – 2013

Project number: 2012-1-CZ1-ERA10-10339

Project title: **IP 2012 Eco-agritourism**

Coordinator: Ing. Pavol Otepka, PhD.

Project realization: 2012 – 2014

### **Jean Monnet** (5 projects)

Project number: 141302-LLP-1-2008-Sk

Project title: **Financing of EU programs**

Project coordinator: doc. Ing. Pavol Schwarcz, PhD.

Project realization: 2008 – 2013

Project number: 154239-LLP-1-2009-1-SK-AJM-MO

Project title: **Agri-Environmental Legislation of the EU**

Project coordinator: JUDr. Lucia Paľšová, PhD.

Project realization: 2009 – 2014

Project number:

Project title: **European Union Business Law**

Project coordinator: Mgr. Ing. Jarmila Lazíková, PhD.

Project realization: 2010 – 2015

Project number: 357581-LLP-2011-SK-AJM-ICS

Project title: **Learning EU at Schools: European Integration in Slovak Schools**

Project coordinator: Ing. Ľubica Rumanovská, PhD.

Project realization: 2012 – 2013

Project number: 200123-LLP-1-2011-1-SK-AJM-CH

Project title: **Chair in EU Agrarian Law**

Coordinator: prof. JUDr. Anna Bandlerová, PhD.

Project realization: 2011 – 2014

#### **TEMPUS (1 project)**

Project number: 530397-TEMPUS-1-2012-1-SK-TEMPUS-SMHES

Project title: **Strengthening the Lifelong Learning in Environmental Impact Assessment and Management in Russia (STREAM)**

Project coordinator: doc. JUDr. Eleonóra Marišová, PhD.

Project realization: 2012 – 2015

#### **CEEPUS (1 project)**

Project number: CII-SK-0505-04-1314

Project title: **Rural Tourism programs network**

Project coordinator: doc. JUDr. Eleonóra Marišová, PhD.

Project realization: 2010 – 2014

#### **External Cooperation Window (1 project)**

Project number: 2010-2649/001-001CPT EU-CAN TEP

Project title: **Transatlantic Empowering the Skills, Knowledge and Know-how in Teaching and learning Bio-energy entrepreneurship (EU-CAN Bio Power)**

Project coordinator: doc. JUDr. Eleonóra Marišová, PhD.

Project realization: 2010 – 2013

#### **Leonardo da Vinci (1 project)**

Project number: 2012-1-SK1-LEO05-04199

Project title: **New European Standards in the Context of the Reformed Common Agricultural Policy (NEWCAP)**

Project coordinator: doc. Ing. Pavol Schwarcz, PhD.

Project realization: 2012 – 2014

#### **International Visegrad Fund (1 project)**

Project number: 21210299

Project title: **Organization of the photo contest, the aim of which is to illustrate the special form of work in our everyday lives**

Project coordinator: Ing. Pavol Otepka, PhD.

Project realization: 2012 – 2013

#### **Intelligent Energy Europe (1 project)**

Project number: IEE/10/470/S12.593725

Project title: **Support of regional initiatives in bioenergy - PromoBio**

Project coordinator: Ing. Pavol Otepka, PhD.

Project realization: 2011 – 2014

#### **Leonardo da Vinci – Transfer of Innovation (3 projects)**

Project number: 2012-1-SK1-LEO05-04199

Project title: **European Standards in the Context of Reformed EU Common Agricultural Policy**

Coordinator: prof. Ing. Pavol Schwarcz, PhD.

Project realization: 2012 – 2014

Project number: 2013-1-NL1-LEO05-12308

Project title: **Entering the Bio Based Economy**

Coordinator: doc. Ing. Loretta Schwarczová, PhD.

Project realization: 2013 - 2015

Project number: 2013-1-PL1-LEO05-37532

Project title: **Agrobiogas as an alternative source of energy in rural areas**

Coordinator: doc. Ing. Loretta Schwarczová, PhD.

Project realization: 2013 – 2015

#### **Baltic University Programme (1 project)**

Project number: 501/2013/SPU

Project title: **Baltic University Programme**

Project coordinator: doc. Ing. Alexander Fehér, PhD.

Project realization: 2008 – 2015

#### **EC Tender (1 project)**

Project number: PO2012/121BTS

Project title: **24 hours with EU**

Coordinator: Ing. Milan Fiřa, PhD.

Project realization: 2013

### **2.2.7 International and national research projects submitted in 2013**

## International projects

Project number	Program	Project title	Coordinator	Project realization	Result of project approval
FPS COST Action FP 1301	COST	Innovative management and multifunctional utilization of traditional coppice forests – an answer to future ecological, economic and social challenges in the European forestry sector (EuroCoppice)	doc. Ing. Alexander Fehér, PhD.	2013 - 2017	approved
ES 1106	COST	Euro-Agriwat	prof. RNDr. Bernard Šiška, PhD.	2013-2018	approved
SK-SRB-2013-0042	APVV	Use of queuing theory and intelligent methods for modeling the optimal capacity of irrigation systems	Dr.h.c. prof. Ing. Dušan Húska, PhD.	2014-2015	in approval process
SK-SRB-2013-0031	APVV	Revitalization of small agricultural farms through energy crops cultivation and biomass production	doc. JUDr. Eleonóra Marišová, PhD.	2014-2015	in approval process
SK-CZ-2013-0034	APVV	Production of biogas from biodegradable waste from agriculture, food and communal area	prof. Ing. Ján Gaduš, PhD.	2014-2015	in approval process
APVV-0563-12	APVV	Optimization process of anaerobic non-food biomass gasification	prof. Ing. Ján Gaduš, PhD.	2014-2015	not approved

6 international research projects were submitted in 2013, out of them 2 were approved, 1 not approved and 3 of them are currently in approval process.



## National projects

1/0813/14	VEGA	Ecosystem services in rural landscape and their usability	prof. RNDr. Pavol Eliáš, CSc.	2014 - 2016	approved
1/0247/14	VEGA	Integrated approaches to the development of rural tourism in the SR	doc. Ing. Jana Jarábková, PhD.	2014-2016	approved
1/0892/14	VEGA	Revitalization of agricultural farms for the production of biomass for energy purposes. Environmental, legal and economic aspects of the production	doc. JUDr. Eleonóra Marišová, PhD.	2014-2016	not approved
028SPU-4/2014	KEGA	Economics and environmental management at the local government level	doc. Ing. Viera Petrášová, PhD.	2014-2015	not approved

4 national research projects were submitted in 2013, out of them 2 were approved and 2 not approved.

## 2.3. FINANCIAL RESOURCES

**The total amount of finance** that received Faculty of European Studies and Regional Development and their Departments from research projects in 2012 **was 146.367 € (68.925 € from domestic resources and 77.442 € from foreign resources)** of which:

Current expenses CuE	144.403 €	98,7 %
Capital expenses CaE	1.964 €	1,3 %

**Table 6a** Finances for scientific-research activities from the Financial Resources of Ministry of Education SR and other sectors in €

Type of project	Departments of FESRD																Total	
	DRaRD		DL		DEP		DPA		DE		DSD		CIP		CBR		CuE	CaE
	CuE	CaE	CuE	CaE	CuE	CaE	CuE	CaE	CuE	CaE	CuE	CaE	CuE	CaE	CuE	CaE		
SGA	2309				4709		13792		11867	1964	9079						<b>41756</b>	<b>1964</b>
CEGA							1796										<b>1796</b>	<b>0</b>
SDRA	9010																<b>9010</b>	<b>0</b>
STH																	<b>0</b>	<b>0</b>
Development projects																	<b>0</b>	<b>0</b>
IRTC, SRDA																	<b>0</b>	<b>0</b>

GA SUA /GA FESRD																		0	0
International projects			44834								6000							50834	0
Other (specify)											26608							26608	0
<b>Total from Ministry of Education of SR</b>	<b>11319</b>	<b>0</b>	<b>44834</b>	<b>0</b>	<b>4709</b>	<b>0</b>	<b>15588</b>	<b>0</b>	<b>11867</b>	<b>1964</b>	<b>41687</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>130004</b>	<b>1964</b>	
State orders																		0	0
Economic Agreements	11567															2832		14399	0
<b>Total</b>	<b>22886</b>	<b>0</b>	<b>44834</b>	<b>0</b>	<b>4709</b>	<b>0</b>	<b>15588</b>	<b>0</b>	<b>11867</b>	<b>1964</b>	<b>41687</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2832</b>	<b>0</b>	<b>144403</b>	<b>1964</b>	

**Table 6b** Share of finances for research projects in €

Type of project	Departments of FESRD								FESRD
	DRaRD	DL	DEP	DPA	DE	DSD	CIP	CBR	
Creative employee	8	7	5	9	7	6	1	1	44
Teachers	9	8	5	9	7	6	1	2	47
Total fin. €/CE	2861	6405	942	1732	1976	6948	0	2832	3326
Total fin. €/teacher	2542	5604	942	1732	1976	6948	0	1416	3114

The faculty received 3114 € for one teacher and 3326 € for one creative employee in research project activities.

**Table 6c** Finances for research activities from international sources in €

Finaces used as:	Departments of FESRD								Total
	DRaRD	DL	DEP	DPA	DE	DSD	CIP	CBR	
Current expenses		44834				32608			77442
Capital expenses									
<b>Total</b>		<b>44834</b>				<b>32608</b>			<b>77442</b>

## 2.4.PERSONAL RESOURCES

Available personal capacity of departments and faculty is conditioned by the number of educational, scientific-technical and technical staff.

**Table 7** Structure of the personal resources at the FESRD in 2013

Categories	Departments of FESRD								FESRD
	DRaRD	DL	DEP	DPA	DE	DSD	CIP	CBR	
<b>Teachers in total</b>	<b>9</b>	<b>8</b>	<b>5</b>	<b>9</b>	<b>7</b>	<b>6</b>	<b>1</b>	<b>2</b>	<b>47</b>
<b>- professors</b>	2	2	1	1	3	2		1	<b>12</b>
- thereof DrSc.						1			<b>1</b>
<b>- associate professors</b>	2	1		2			1		<b>6</b>
- thereof DrSc.									
<b>- CSc./PhD.</b>	4	4	4	6	4	4			<b>26</b>
Scientific-technical employees									
Technical employees - research		1			1				<b>2</b>
PhD students - full time	2	5	2	2	4	2			<b>17</b>

Source: Personal Department - Rectors Office, SUA 31.12.2013

\* DRaRD – doc.Ing. Mária Fáziková, CSc. – functional position of professor, DLdoc. JUDr. Eleonóra Marišová - functional position of professor, DPA – doc. Ing. Milan Belica, PhD. – unpaid vacation, DSD – prof. RNDr. P. Bielek, DrSc. – shorter working hours, doc. Ing. Alexander Fehér, PhD. - functional position of professor

Research projects are mainly coordinated by professors and assoc. professors. Young researchers participate mainly as members of project teams. The research capacity of the Faculty by 31.12.2013 was composed by 47 teachers, out of them 12 professors (one of them with DrSc.), what represents 25% of the total number of all teachers.

6 assoc. professors (13%) and 29 assistant professors (62%), out of them 89% with PhD. are working at the Faculty. Only one teacher with full working time is missing PhD. Research capacity is complemented by 2 employees, which are categorized as scientific-technical employees.

17 full time PhD. students and 17 part time PhD. students were also active in research activities of the Faculty in 2013. These student are studying PhD. at the Faculty of European Studies and Regional Development study program Integrated rural development under the study branch 3.3.5 Public Administration and Regional Development (Department of Regional and Rural Development, Department of Public Administration, Department of Law and Department of European Policies) and study program Environmental Management under the study branch 4.3.3 Environmental Management (Department of Ecology, Department of Sustainable Development).

**Table 8** Overview of the number of employees assigned to the procedures of habilitation and inauguration

Form of professional development	DRaRD	DL	DEP	DE	DSD	DPA	CIP	FESRD
New professors			1	1				2
Inaugural procedure		1						1
New assoc. professors								
Habilitation procedure								
Dr.h.c								

In 2013 was completed the procedure for the appointment of professors in the case of Doc. RNDr. Bernard Šiška, PhD. at the University of Prešov in the field of study General Ecology. Prof. Šiška was appointed Professor by President of Slovak Republic on November 26, 2013. Moreover the procedure was completed in the case of prof. Ing. Pavol Schwarcz, PhD. at the University of Agribusiness and Rural Development in the field of study Economics and Management (Regional Development) in Plovdiv, Bulgaria. Doc. JUDr. Eleonóra Marisova, PhD. is currently in the inauguration proceeding at the university in Hungary.

## 2.5. APPLICATION AND VERIFICATION OF RESEARCH ACTIVITIES

### 2.5.1. Research, application and verification at SUA University Farm, Ltd., Koliňany and Botanical Garden SUA

The SUA University Farm, Ltd., Koliňany is monitoring In 5 samples production and energetic indicators in 5 samples of 7 commercial varieties of energy willow, 4 commercial varieties of grey poplar, 43 new breeding clones of poplar and grey willow and 2 varieties of energy crop *Miscanthus sinensis* (research of the Department of Sustainable Development). The SUA University Farm, Ltd., Koliňany provided the experimental area and contributed to the maintaining vegetation mainly by the mechanization which normally is not available for the departments.

Center of bioenergy research is collaborating with SUA University Farm, Ltd., Koliňany and ensures uninterrupted operation of the biogas plant. The device allows carrying out practical training and solving a wide range of national and international research projects in the field of renewable energy. The experimental facilities located on biogas in Koliňany were innovated by the staff of the Center of bioenergy research. The experimental facility such as bioreactor (5 m<sup>3</sup>) was modified, the equipment adapted for increasing methane content in biogas on the principle of a pressure water scrubbing was structurally resolved and installed. Moreover, a new experimental verification device for cleaning biogas physic-chemical method was made as sponsorship by the company ZOVOS EN Ltd., based on the proposal of the CBR.

## 2.6. COOPERATION WITH FOREIGN PARTNER INSTITUTIONS

In addition to international research networks (chapter 2.1.2) the department employees collaborated with following foreign partner institutions:

### *Department of Regional and Rural Development* **College of Polytechnics Jihlava**

- cooperation in education and research activities

- forthcoming collaborative project to create an information database of innovative processes in the region

**Department of Law**

**Mendel University in Brno, Faculty of Business and Economics**

- research project on the effectiveness of public procurement in the public sector was submitted in cooperation

**University of Pardubice, Faculty of Public Administration**

- research project on the effectiveness of public procurement in Slovakia and Czech republic was submitted in cooperation

**2.7. COOPERATION WITH SECTORIAL RESEARCH INSTITUTES IN SLOVAK REPUBLIC**

**Department of Sustainable Development**

**The Plant Production Research Center Piešťany – workplace Krivá in Orava**

- cooperation focused on the fast-growing tree specie *Salix*

**Soil Science and Conservation Research Institute Bratislava – regional department in Prešov**

- cooperation focused on the research of the impact of the transit gas pipeline system on the productive potential of the soil and harvest crops at selected sites of Eastern Slovakia

**National Forest Centre in Zvolen**

- joint research focused on the verification of the fertilizing effects of wood ash in the fast-growing energy crops

**3. PUBLICATIONS**

Book publications, scientific and technical papers are the main products of scientific work. An overview of the publishing activity in the years 2008 -2013 is shown in Table 9.

**Table 9** Overview of publication activity of FESRD in the years 2008-2013

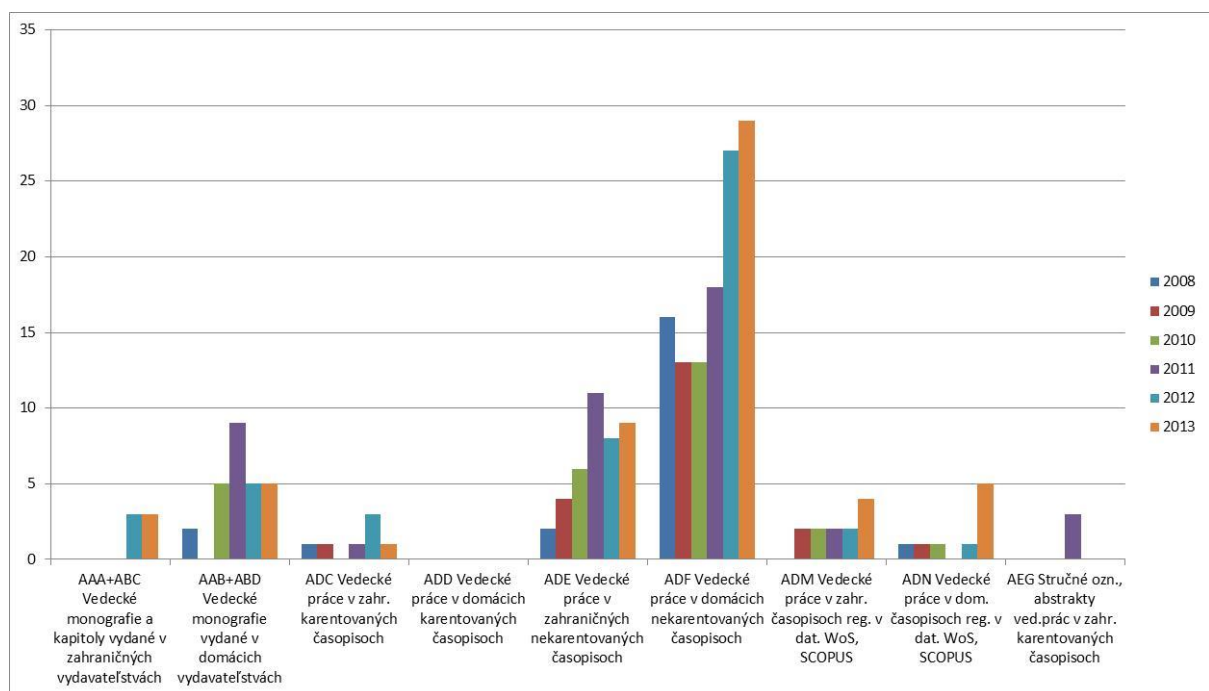
Category of publication activities	2008	2009	2010	2011	2012	2013	TOTAL
AAA Scientific Monographs issued by a foreign publishing					1	1	2
AAB Scientific Monographs issued by a domestic publishing	2		4	7	3	5	21
ABA Studies in journals and volumes characterized as monographs issued by foreign publishing				1			1
ABC Chapters in scientific monographs published by a foreign publishing					2		2
ABD Chapters in scientific monographs published by a domestic publishing			1	2	2		5
ACB University textbooks published in domestic publishing	1	1	3	4	6	3	18
ACD Chapters in University textbooks published in domestic publishing				1			1
ADC Scientific papers published in foreign CC journals	1	1		1	3	3	9

ADE Scientific papers published in foreign nonCC journals	2	4	6	11	8	12	43
ADF Scientific papers published in domestic non CC journals	16	13	13	18	27	33	120
ADM Scientific papers published in foreign journals regist. in WoS, SCOPUS						4	4
ADN Scientific papers published in domestic journals regist. in WoS, SCOPUS						5	5
AEC Scientific papers published in foreign reviewed scientific yearbooks	1	2	1			4	8
AED Scientific papers published in domestic reviewed scientific yearbooks	1	4	26	19	14	15	79
AEG Brief statements, abstracts of scientific papers in foreign CC journals				3			3
AFA Published invited presentations at foreign scientific conferences						1	1
AFB Published invited presentations at domestic scientific conferences		1		1			2
AFC Contributions published on foreign scientific conferences	10	16	15	22	22	21	106
AFD Contributions published on domestic scientific conferences	35	59	55	88	70	62	369
AFG Paper abstracts from international conferences	6	3	8	4	8	3	32
AFH Paper abstracts from domestic conferences		25	6	8	19	18	76
AFF Invited paper abstracts from domestic conferences						4	4
AFK Posters in yearbooks from international conferences	1	1	4				6
AFL Posters in yearbooks from domestic conferences				4			4
AGI Reports on solved scientific-research tasks		1		1	1		3
AGJ Copyrights, patents, findings						1	1
BAB Professional book papers issued in the domestic publishing	2	2	4	2	4	2	16
BBB Chapters in Professional monographs published by domestic publishing		2	2				4
BCI Textbook and instructional texts	5	4	3	3	3	4	22
BDE Professional papers published in non-CC foreign journals	1	1		2	3		7
BDF Professional papers published in non-CC domestic journals	3	17	10	14	9	11	64
BEC Professional papers in reviewed foreign yearbooks (conference and non-conference)			3		4		7
BED Professional papers in reviewed domestic yearbooks (conference and non-conference)		57	7		2		66
BEE Professional papers in non-reviewed foreign yearbooks						2	2
BEF Professional papers in non-reviewed domestic yearbooks					2	5	7
BFA Abstracts of Professional papers from foreign events						6	6
BFB Abstracts of Professional papers from domestic events		1					1
DAI Qualifying work (PhD, habilitation)		6	1		3	8	18
EDI Reviews in journals and yearbooks							

(Bibliographies, encyclopedias, catalogs, dictionaries, yearbooks...)	3	3	1	3			10
GII Various publications and documents	2	9	10	13	6	12	52
FAI Editorial works	5	8	7	8	6	9	43
<b>TOTAL</b>	<b>97</b>	<b>241</b>	<b>190</b>	<b>240</b>	<b>228</b>	<b>254</b>	<b>1250</b>

From the perspective of complex accreditation of departments and the university the most important categories of publications represent categories AAA, ABC, ADC, ADD, ADM and ADN. The development of publications in the categories of monographs and scientific journals is shown in Figure No. 1. A positive trend can be seen in most of these categories, especially in the second half of the reporting period.

**Figure No. 1:**



**Table 10: Publication Activities of Departments in 2013**

Category of publication activities	field of study 3.3.5				field of study 4.3.3				FESRD
	DRaRD	DL	DEP	DPA	CIP	DE	DSD	CBR	
AAA Scientific Monographs issued by a foreign publishing							1		1
AAB Scientific Monographs issued by a domestic publishing		2		2		1	2		7
ACB University textbooks published in domestic publishing	1	1	1	1	1	1			6
ADC Scientific papers published in foreign CC journals	1		1			1			3
ADE Scientific papers published in foreign nonCC journals	3	3	5	2	2	1	1		17

ADF Scientific papers published in domestic non CC journals	3	11	4	11	2	5	4		<b>40</b>
ADM Scientific papers published in foreign journals regist. in WoS, SCOPUS		2	2	1	1	1		1	<b>8</b>
ADN Scientific papers published in domestic journals regist. in WoS, SCOPUS				2		3	2		<b>7</b>
AEC Scientific papers published in foreign reviewed scientific yearbooks				2			2		<b>4</b>
AED Scientific papers published in domestic reviewed scientific yearbooks	5		2	10					<b>17</b>
AFA Published invited presentations at foreign scientific conferences				1					<b>1</b>
AFC Contributions published on foreign scientific conferences	4	9	4	3	2	1	4		<b>27</b>
AFD Contributions published on domestic scientific conferences	5	19	11	14	5	10	5	1	<b>70</b>
AFF Invited paper abstracts from domestic conferences						4			<b>4</b>
AFG Abstracts of contributions from international conferences	1	3		2	1				<b>7</b>
AFH Abstracts of contributions from domestic conferences	2	3	4	4	1	7	9		<b>30</b>
AGJ Copyrights, patents, findings	1								<b>1</b>
BAB Professional book papers issued in the domestic publishing				2		1	2		<b>5</b>
BCI Textbook and instructional texts	1	1	2				1		<b>5</b>
BDF Professional papers published in non-CC domestic journals		1	1	4		2	2	2	<b>12</b>
BEE Professional papers in non-reviewed foreign yearbooks	1					1			<b>2</b>
BEF Professional papers in non-reviewed domestic yearbooks	5								<b>5</b>
BFA Abstracts of Professional papers from foreign events		1		2		3			<b>6</b>
DAI Qualifying work (PhD, habilitation)	2	1	2	2		1			<b>8</b>
FAI Editorial works		2	4	2		1	2		<b>11</b>
GII Various publications and documents			2	2		6	2		<b>12</b>
<b>TOTAL</b>	<b>35</b>	<b>59</b>	<b>45</b>	<b>69</b>	<b>15</b>	<b>50</b>	<b>39</b>	<b>4</b>	<b>316</b>
<b>ALTOGETHER</b>	<b>223</b>					<b>93</b>			<b>316</b>

**Table 11** Overview of citations by category in 2013

Citations by categories	DRaRD	DL	DEP	DPA	DE	DSD	CIP	CBR	FESRD
Citations in foreign publications registered in citation indexes of SCOPUS and Web of Science (1)	6	6	3	4	31	14	0	3	67
Citations in domestic publications registered in citation indexes of SCOPUS and Web of Science (2)	1	3	1	0	13	6	1	0	25



Citations in foreign publications non-registered in citation indexes (3)	16	27	7	28	31	10	1	1	121
Citations in domestic publications non-registered in citation indexes (4)	22	44	19	46	90	65	6	7	299
Total (1-4)	45	80	30	78	165	95	8	11	512

**Table 12** Overview of publications and citations for 1 teacher and creative employee according to the Departments

Departments	DRaRD	DL	DEP	DPA	DE	DSD	CIP	CBR	FESRD
No. of publications/ teacher	3,8	7,3	9	7,6	7,1	6,5	15	2	6,7
No. of publications/ creative worker	4,3	8,4	9	7,6	7,1	6,5	15	4	7,2
No. of scientific papers*/ creative worker	1,3	1,8	2,4	3,3	1,4	1,1	4	1	2
No. of citations/ teacher	5	10	6	8,6	23,5	15,8	8	5,5	10,8
No. of citations/ creative worker	5,6	11,4	6	8,6	23,5	15,8	8	11	11,6
No. of citations WoS and SCOPUS/ creative worker	0,8	1,2	0,8	0,4	6,2	3,3	1	3	2,1

\* Categories of publication activity: ADC, ADD, ADE, ADM, AND, ADF, ABC, AED

## THE MOST IMPORTANT PUBLICATIONS OF FESRD IN 2013

### ADC Scientific papers published in foreign CC journals

J. Eitzinger....[et al.]: Regional climate change impacts on agricultural crop production in Central and Eastern Europe - hotspots, regional differences and common trends / In: Journal of Agricultural Science. -- ISSN 0021-8596. -- Vol. 151, no. 6 (2013), p. 787-812.

Pavol Schwarcz...[et al.]: Nehézfém tartalom szlovákiai hús-és tejmintákban = Heavy metals in Slovakian meat and milk samples. -- grafy, ilustr.In: Magyar állatorvosok lapja. -- ISSN 0025-004X. -- Vol. 135, no. 9 (2013), p. 565-571.

### ADM Scientific papers published in foreign journals registered in Web of Science or SCOPUS

Marián Fodora...[et al.]: Design of laboratory cyclone separator for biogas purification / -- ilustr.In: Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis. -- ISSN 1211-8516. -- Vol. 61, no. 3 (2013), p. 631-635.

Eleonóra Marišová...[et al.]: Assessment of the state administration effectiveness in the field of small business control in Slovakia /. -- ilustr.In: Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis. -- ISSN 1211-8516. -- Vol. 61, no. 7 (2013), p. 2483-2489

Žaneta Pauková: The current spread of invasive neophytes of genus Fallopia in town Hlohovec (SW Slovakia) after ten years [elektronický zdroj] = Súčasný rozšírenie inváznych neofytov rodu Fallopia v meste Hlohovec (JZ Slovensko) po desiatich rokoch /. -- grafy,

ilustr. -- Popis urobený 23.4.2013. -- Dostupné na internete. In: Journal of Central European Agriculture. -- ISSN 1332-9049. -- Vol. 14, no. 1 (2013), p. 124-133.

Pavol Schwarcz, Anna Bandlerová, Anna, Loreta Schwarczová: Selected issues of the agricultural land market in the Slovak Republic = Vybrané problémy trhu s poľnohospodárskou pôdou na Slovensku /. -- grafy, ilustr., tab. In: Journal of Central European Agriculture. -- ISSN 1332-9049. -- Vol. 14, č. 3 (2013), p. 249-262.

### **ADN Scientific papers published in domestic journals registered in Web of Science or SCOPUS**

Milan Demo...[et al.]: Production and energy potential of different hybrids of poplar in the soil and climatic conditions of Southwestern Slovakia / In: Wood research. -- ISSN 1336-4561. -- Vol. 58, no. 3 (2013), p. 439-450.

Milan Demo...[et al.]: Biomass production potential of different willow varieties (*Salix* spp.) grown in soil-climatic conditions of South-Western Slovakia. -- ilustr., tab. In: Wood research. -- ISSN 1336-4561. -- Vol. 58, no. 4 (2013), p. 651-662.

Pavol Eliáš ml...[et al.]: Distribution and origin of *Aegilops* species in Slovakia /. -- ilustr. In: *Thaiszia*. -- ISSN 1210-0420. -- Vol. 23, no. 2 (2013), s. 117-129.

Denisa Hanáčková, Michal Cifranič: Hodnotenie kvality sociálnych služieb prostredníctvom štandardov = Social services quality evaluation through the standards /. -- graf, ilustr., tab. In: *Zdravotníctví a sociální práce*. -- ISSN 1336-9326. -- Vol. 8, no. 2 (2013), p. 42-50.

Žaneta Pauková: Invasive plant species in the three microregions of Nitra region, South-West Slovakia / -- ilustr. In: *Ekológia*. -- ISSN 1335-342X. -- Vol. 32, no. 2 (2013), p. 262-266.

Žaneta Pauková, Viktória Káderová, Ladislav Bakay: Structure and population dynamics of *Asclepias syriaca* L. in the agricultural land /. -- ilustr., tab. In: *Agriculture*. -- ISSN 0551-3677. -- Vol. 59, no. 4 (2013), p. 161-166.

### **ADE Scientific papers in other foreign journals**

Eva Balážová, Denisa Hanáčková: Importance of human potential in decision-making at local government level /. -- ilustr., tab. In: *Journal on Law, Economy & Management*. -- ISSN 2048-4186. -- Vol. 3, no. 2 (2013), p. 49-53.

Janka Beresecká: Tvorivosť a kokurencieschopnosť vidieckeho regi[ó]nu [elektronický zdroj] : Creativity and competitiveness of rural region /. -- ilustr., tab. -- Popis urobený. In: *Regionální rozvoj mezi teorií a praxí*. -- ISSN 1805-3246. -- Vol. 2, no. 2 (2013), 9 p.

Milan Fiľa, Veronika Tóthová: Possibility of using the CSA as an alternative farmers' business model in Slovak Republic /. -- ilustr. In: *Journal on Law, Economy & Management*. -- ISSN 2048-4186. -- Vol. 3, no. 1 (2013), p. 19-26.

Monika Gubáňová, Monika Kurňavková: The importance of local community participation in the planning process of development of the Preseľany municipality /. -- grafy.In: Journal on Law, Economy & Management. -- ISSN 2048-4186. -- Vol. 3, no. 2 (2013), p. 12-17.

Dušan Húska...[et al.]: Evaluation of surface water in Žitava catchment under the aspect of anthropogenic impact = Ocena vody povrchniowej w zlewni Žitava w kontekście oddziaływania antropogenicznego / In: Acta scientiarum Polonorum. -- ISSN 1644-0765. -- Vol. 12, no. 3 (2013), p. 41-51.

Dušan Húska, Ľuboš Jurík, T. Kaletová Changes in the quality of natural waters used for recreations in Slovakia /. -- ilustr.In: Journal of Landscape management. -- ISSN 1804-2821. - - Vol. 4, no. 1 (2013), p. 42-47.

Marcela Chreneková, Petr Jiříček: The new funding strategy of EU innovation programmes /. -- ilustr.In: Journal on Law, Economy & Management. -- ISSN 2048-4186. -- Vol. 3, no. 2 (2013), p. 18-22.

Jana Jarábková, Janka Beresecká: Produkty kreatívneho cestovného ruchu na vidieku [elektronický zdroj] = Creative tourism products in rural areas /. – Description taken on December 5, 2013. In: Studia turistica. -- ISSN 1804 -252x (online). -- Vol. 4, no. 1 (2013), p. 6-12.

Marián Kotrla, Martin Prčík: Environmental and socio-economic aspect of growing Miscanthus genotypes /. -- ilustr.In: Scientific papers. -- ISSN 2247-3527. -- Vol. 13, iss. 1 (2013), p. 201-204.

Eleonóra Marišová...[et al.]: Ongoing reforms in public administration in Slovakia: how effective is the current one envisaged? /. – graphs, ilustr.In: Gazdaság & Társadalom. -- ISSN 0865-7823. -- Vol. 5, no. 1 (2013), p. 83-98.

Zuzana Palková...[et al.]: European projects as a tool for improving farmers skills via modern information technologies /. -- ilustr.In: Scientific papers. -- ISSN 2247-3527. -- Vol. 13, issue 2 (2013), p. 449-452

Ľubica Rumanovská: Evaluation of the impact of innovative projects on the competitiveness of agricultural holdings in Slovak republic /. -- ilustr.In: Scientific papers. -- ISSN 2284-7995. -- Vol. 13, iss. 1 (2013), p. 337-344.

#### **4. ISSUE OF THE SCIENTIFIC JOURNAL**

2 scientific journals are published by the Faculty of European Studies and Regional Development:

*Acta regionalia et environmentalica* – scientific journal for regional and environmental sciences. Original works thematically oriented to above mentioned and related fields of science and research are published in it. Periodicity of publication is two times a year. From 2013 the journal is issued in English language.

*EU Agrarian Law* – scientific journal for theory and application of EU agrarian law. The journal is issued from 2012 within the project Jean Monnet Chair – EU Agrarian Law. Periodicity of publication is two times a year. The journal is issued in English language.

Both journals are published online through the publisher De Gruyter on the website: <http://www.degruyter.com>.

## 5. SCIENTIFIC EVENTS

7 events with international participation and 7 events with domestic participation were organized at the Faculty of EU Studies and Regional Development in 2013. Events were organized under the auspices of Deans Office and particular departments of FESRD.

**Table 13:** Scientific events FESRD

Form of the event	DRaRD	DL	DEP	DPA	DE	DSD	CIP	CBR	Deans office	FESRD
Events with international participation / number of days		2/2		1/3	1/3	3/5				7/13
Professional and scientific events with domestic participation / number of days	1/2			3/3	1/1*	1/1*			2/2	7/9

\*event organized in cooperation of two departments

### *Events with international participation:*

Event title: **Management of Research Projects**  
 Type of event: workshop (prof. Dr. mult. Dr. h. c. mult. Walter Leal)  
 Date: April 18, 2013  
 Place: meeting room R-SUA, Nitra  
 Professional guarantor: Rector's office SUA Nitra, DSD FESRD SUA, BUP  
 The goal of the event was to familiarize participants with methods of administration, solutions and managing research projects.

Event title: **European integration in agriculture in the light of EU legislation**  
 Type of event: workshop  
 Date: April 18, 2013  
 Place: Department of Law FESRD, SUA Nitra  
 Professional guarantor: prof. JUDr. Anna Bandlerová, PhD.  
 Goal of the event:  
 Within the round table was discussed the possibility of agriculture integration, government interventions, the advantages and disadvantages of integration, finding the optimum compromise between integration and national interests in the European agriculture. The discussion target groups were teachers, PhD students and researchers.

Event title: **How to get published?**  
 Type of event: workshop (prof. Dr. mult. Dr. h. c. mult. Walter Leal)  
 Date: June 6, 2013  
 Place: Congress Hall A. Bernolák, SUA Nitra  
 Professional guarantor: R-SUA Nitra, DSD FESRD SUA, BUP

The goal of the event was to present students the opportunities and skills in connection with the publication of scientific articles.

Event title: **Legal, economic, managerial and environmental aspects of performance competencies by local authorities**  
Organizer: Department of Public Administration  
Professional guarantor: Ing. Eva Balážová, PhD.  
Date: June 25 – July 19, 2013  
Place: Department of Public Administration FESRD, SUANitra  
The aim of the international scientific conference was the presentation of the correspondent current economic and managerial approaches to exercise powers of municipalities from both theoretical and empirical aspects of national and international scale, comparison and evaluation of research results and knowledge in mentioned area.

Event title: **Environmental changes and adaptation strategies**  
Co-organizer: Department of Ecology  
Professional guarantor: prof. RNDr. Bernard Šiška, PhD.  
Date: September 9-11, 2013  
Place: Skalica  
Goal of the event:  
The international scientific conference was focused on the impacts of climate change for the purpose of providing proposals aimed at better understanding of climate change processes and its consequences, as well as to increase the efficiency of monitoring and adaptation strategies.

Event title: **Promotions to regional bioenergy initiatives – PromoBio**  
Type of event: international project team meeting  
Date: October 21-23, 2013  
Place: Hotel Poľana, Zvolen  
Professional guarantor: Ing. Pavol Otepka, PhD.  
Goal of the event:  
The aim of the international project team meeting (Finland, Austria, Poland, Romania and Slovakia) was to present successful projects of using agricultural and forest biomass for energy in the target region (in the case of Slovakia: Banská Bystrica HTU), to familiarize with the successful model of using biomass for energy in Finland and Austria and to discuss the elaborating process of regional Action plan for the use of biomass for energy in the Banská Bystrica region.

Event title: **EU Agrarian Law VII**  
Type of event: workshop  
Date: October 24, 2013, Nitra  
Place: Department of Law FESRD, SUA Nitra  
Professional guarantor: prof. JUDr. Anna Bandlerová, PhD.  
Goal of the event:  
The result of the scientific event was published anthology entitled "EU Agrarian Law VII". The papers were focused on selected issues of agrarian law, in particular the problems arising from contract law in agriculture.

***Professional and scientific events with domestic participation:***

Event title: **Scientific Day FESRD 2012**  
Organizer: Deans Office FESRD  
Professional guarantor: prof. JUDr. Anna Bandlerová, PhD.  
Organizational guarantor: Ing. Georgetta Palšová  
Date: January 14, 2013  
Place: room A-02, FESRD, SUA Nitra  
Goal of the event:  
The aim of the event was the presentation of results of research projects realized at FESRD in 2012.

Event title: **Faculty's Student Science Conference**  
Organizer: Deans Office FESRD and Faculty's Departments  
Professional guarantor: prof. JUDr. Anna Bandlerová, PhD.  
Organizational guarantor: Ing. Pavol Schwarcz, PhD.  
Date: April 23, 2013  
Place: Farská street, Mariánska street, AE-pavilion, FESRD, SUA Nitra

Goal of the event:  
The conference was organized with the aim to present results of student's research works. It was also an opportunity to exchange knowledge, opinions and getting new inspiration for their future research work.

Event title: **New approaches to public services provided by territorial government**  
Organizer: Department of Public Administration  
Professional guarantor: Ing. Denisa Hanáčková, PhD.  
Date: September 11, 2013  
Place: Municipal office Zuberec

Goal of the event:  
The aim of the scientific seminar was to present current scientific results of research and knowledge transfer into practice in the field of public services providing at regional and local level. The seminar was supported by the Cultural and Educational Grant Agency of the Ministry of Education, Science, Research and Sport of the Slovak Republic based on the project titled Economy and management of public services under the contract no. 031SPU-4/2013.

Event title: **Anthropogenic impacts on environmental quality change**  
Organizer: Department of Public Administration  
Professional guarantor: Dr.h.c. prof. Ing. Dušan Húska, PhD.  
Date: September 12, 2012  
Place: Municipal office Zuberec

Goal of the event:  
The presentation of recent situation in the river basin of Žitava in terms of rural development and environmental quality, presentation of research results.

Event title: **Fast-growing herbs and plants grown for energy purposes in the country of Slovakia /New knowledge of ecophysiology, technology, ecology, environmental science, law, economics and energy/**

Organizer: Department of Ecology, Department of Sustainable Development

Professional guarantor: prof. RNDr. Zuzana Jureková, CSc., Department of Ecology  
prof. Ing. Milan Demo, PhD., Department of Sustainable Development

Date: September 19, 2013

Place: Nitra

Goal of the event:  
The aim of the scientific conference was to present scientific research results in the field of fast-growing herbs and plants and the use of their biomass as an alternative energy. Moreover the goal was to present the perspective of herbs cultivation and the use of their biomass for combustion and production of bio-components for biofuels in terms of energy and economy, to present scenarios of the cultivation impact on the diversity of species, on the changes in the country, on the environment and rural employment.

Event title: **Public services provided by municipalities of SR**

Organizer: Department of Public Administration

Professional guarantor: Ing. Eva Balážová, PhD.

Date: November 5, 2013

Place: auditorium T, SUA Nitra

Goal of the event:  
The aim of the scientific seminar was to present latest scientific results of research and knowledge transfer into practice of local governments in the field of possibilities, benefits and barriers review in providing local public services and discussion. The seminar was supported by the Cultural and Educational Grant Agency of the Ministry of Education, Science, Research and Sport of the Slovak Republic based on the project titled Economy and management of public services under the contract no. 031SPU-4/2013.

Event title: **Creative industries and creative settlements in the countryside**

Organizer: Department of Regional and Rural Development

Professional guarantor: doc. Ing. Mária Fáziková, CSc.

Organizational guarantor: doc. Ing. Mária Fáziková, CSc.

Date: November 14-15, 2013

Place: Topoľčianky

Goal of the event:  
The goal of the event was to present current scientific results of research task APVV 0001/2010 KRENAR - National economic and regional aspects of the creative economy, solved at the Department of Regional and Rural Development.

## Student Scientific Conference

Student Scientific Conference was organized at the Faculty of European Studies and Regional Development under the auspices of dean of the faculty prof. JUDr. Anna Bandlerová, PhD. on April 23, 2013. The conference was attended by 49 students (46 papers), thereof:

- 7 students at the 1<sup>st</sup> degree, 31 students at the 2<sup>nd</sup> degree, 11 students at the 3<sup>rd</sup> degree
- 42 students at full time form of study and 7 students at part time form of study

Competition was realized in the following sections:

- European Development Programs
- Regional Development and Tourism
- Public Administration and Law
- Environment and Sustainable Development
- Young Science

Section	Level of study			Form of study		Total	Gestor's departments
	1st	2nd	3rd	Full time	Part time		
European Development Programs	0	6	0	6	0	6	DEP, DL
Regional Development and Tourism	2	7	0	8	1	9	DRaRD, DSD
Public Administration and Law	2	9	0	6	5	11	DPA, DL
Environment and Sustainable Development	3	9	0	11	1	12	DSD, DE
Young Science	0	0	11	11	0	11	
<b>TOTAL</b>	<b>7</b>	<b>31</b>	<b>11</b>	<b>42</b>	<b>7</b>	<b>49</b>	

The first three places in each section were awarded a diploma and financial rewards from special scholarships (1<sup>st</sup> place 250 €, 2<sup>nd</sup> place 150 €, 3<sup>rd</sup> place 100 €). All participants received a certificate for the participation at Student Scientific Conference.

As the result of the conference a yearbook of abstracts from presented works was issued.



## **6. CONCLUSIONS**

### **SWOT ANALYSIS**

Conclusions of the scientific report were summarized by means of SWOT analysis, which highlight the strengths and weaknesses, opportunities and threats of the faculty research.

#### **Strengths**

- Unique orientation of the faculty on rural development
- Involvement of scientific-pedagogical employees and teams in project activities
- Strengthening of international research cooperation – the faculty participate in solving international research projects within 5 networks
- Improvement of employee qualification structure within last 3 years (particularly finished habilitation procedures)
- Completion of scientific-research base of faculty's departments with PhD. Students in the field of study 4.3.3. Environmental management
- Building of Agrobiotech Research Centre
- Possibility of demonstration of scientific activities results at the SUA University Farm, Ltd., Koliňany

#### **Weaknesses**

- Lower publication activity, mostly in CC and impacted journals in WoS and Scopus
- Lower publication activity of PhD. students
- Low amount of received financial sources for research projects
- Low capital support for the projects implemented at the faculty
- Low number of foreign scientists working in research teams
- Insufficient promotion of scientific results

#### **Opportunities**

- To focus on submitting or participation at international research projects within the program Horizon 2020
- To focus on projects with higher capital support for research (mainly environmental oriented departments)
- To extend a cooperation of the faculty with practice and its better involvement in research activities performance
- To involve students into the scientific-research activity of faculty's departments
- To attract important scientists from abroad, to prepare joint projects and outputs
- The result of complex accreditation in 2014

#### **Threats**

- Decrease of the financial support for university education and research from the government
- Lower transparency of project evaluation in domestic research agencies
- Lack of financial resources to support research at the level of National Grant Agencies (SGA, SRDA)
- Lack of interest by foreign partners on scientific research cooperation with FESRD

**Proposed measures**

- To continue building workplaces by quality infrastructure, to support the quality and successful workplaces, to support the increment of workplace participation at international projects
- To reduce the burden of leading researchers at international projects on the educational process
- To improve research activities outcomes, to increase publication activity of employees in indexed journals with higher impact factor
- To support the mobility of teachers, researchers and PhD students in relation to leading foreign universities and scientific institutes
- To develop cooperation of FESRD with economic practice, to promote the results of scientific work of FERD employees, to improve the scientific and social dialogue