

14. **Gal Teofil Ovidiu**
Microwave Impact on Agriculture Products
15. **Jude Eugen**
Research for Quantification the Relationship from Soil-Water-Plant Atmosphere System in Potato from Crisurilor Plain
16. **Marele Daniela**
Influence of 6-benzylaminopurine (BAP) on Organogenesis and Growes of Soybean *in vitro*
17. **Molnárová Juliana**
Yield and Technological Quality of Spring Barley Grain Depending on Year and Selected Cultivation Factors
18. **Negrău Stelian Valentin**
Some Aspects regarding the Land use Categories in Bihor County
19. **Oșvat Marius**
The Erosion Influence on Main Physical Properties of the Eroded Soil from North-Western Romania
20. **Puiu Isabela, Olteanu Gheorghe, Mărculescu Angela, Ghinea Adrian, Dașța Florentina**
The Risk Factors Monitoring in Potato Crop Through Continuous Soil Resources and Vegetation Status Observations
21. **Popovici Mariana, Iancu Carmen Violeta**
The Influence of Nitrogen Fertilization and the Interaction Between Nitrogen and Phosphorus upon the Production of Exotic and Renan Types of Winter Wheat
22. **Sala Anca Natalia**
The Effect of Foliar Fertilizers Application on some Perennial Forage Species
23. **Stanciu Alina, Bucurean Elena, Cărbunar Mihai, Vidican Iuliana Teodora**
Increasing Biomass in *Phleum pratense* Species According to Climatic Conditions and Fertilization
24. **Stanciu Alina, Lazăr Andra, Cărbunar Mihai**
Perennial Grasses Crop Yields as a Result of Application of Graduated Doses of Nitrogen
25. **Vârban Rodica, Vârban Dan Ioan, Mihăiescu Tania, Păcurar Florin**
Research on the Optimisation of *Arnica montana* L Seedling Production
26. **Venig Aurora**
The Level of Agricultural Labor Productivity and its Contribution to the Whole European Economy

27. **Venig Aurora, Venig Adelina**
The Development of Agriculture in Europe in the Context of Granting Regional Aid
28. **Spilca Mihaela Cecilia, Crainic Ghita-Cristian, Dragomir Octavian-Lucian**
Real Time Positioning Particularities of some Details in Special Working Conditions
29. **Spilca Mihaela Cecilia, Crainic Ghita-Cristian, Dragomir Octavian-Lucian**
Particular Cases of Spatial Positioning in Agricultural and Forest Sector

Section 2 HORTICULTURE

Friday, 7 November

1. **Ardelean Alina Grigorita**
Research on the Establishment of Interpretation Limits for the Agrochemical Indices in Soil in Defining the Agrochemical Risk Areas in the Field Tomato Crop Under the Influence of Fertilization Systems
2. **Ardelean Alina Grigorita**
Research on the Establishment of Interpretation Limits for the Agrochemical Indices in Soil in Defining the Agrochemical Risk Areas in Greenhouse Tomato Crop under the Influence of Fertilization Systems
3. **Bei Mariana Florica**
Irrigation Scheduling at Tomatoes Crop under Polyetilenne Tunnel Condition
4. **Bei Mariana Florica**
Irrigation Scheduling at Cucumbers Crop under Polyetilenne Tunnel Condition
5. **Cărbunar Mihai, Stanciu Alina, Domocoș Daniela**
Research on the Behaviour of some Tomato Hybrids in Ecological Culture Cultivated in the Tunnels
6. **Cărbunar Mihai, Stanciu Alina, Ștef Valeriu Adrian**
Influence of Low Temperatures upon the Lettuce Production in Some Lettuce Varieties Cultivated in Tunnels
7. **Cheregi Viorel**
Research regarding the Chemical Fertilization of the Wine Growing Plantation in a Long Term Trial
8. **Cheregi Viorel**
Results of Work on Long Term of Various Systems of Soil Maintenance of Vineyards



UNIVERSITY
OF ORADEA

FACULTY OF
ENVIRONMENTAL
PROTECTION

UNIVERSITY OF ORADEA
FACULTY OF ENVIRONMENTAL PROTECTION

Str. Gen. Magheru nr.26, Oradea, România

Phone: 0040/259/412550

Fax. 0040/259/416274

<http://protmed.uoradea.ro>

International Symposia

“RISK FACTORS FOR ENVIRONMENT
AND FOOD SAFETY”

&
“NATURAL RESOURCES
AND SUSTAINABLE DEVELOPMENT”

November 7-8, 2014,
ORADEA, ROMANIA





**University of Oradea
Faculty of Environmental Protection**

International Symposia

**“RISK FACTORS FOR ENVIRONMENT AND
FOOD SAFETY”**

&

**“NATURAL RESOURCES AND SUSTAINABLE
DEVELOPMENT”**

**November 7-8, 2014
Oradea, Romania**

PROGRAM BOOKLET



University of Oradea
Faculty of Environmental Protection

International Symposia

“Risk Factors for Environment and Food Safety”
&
“Natural Resources and Sustainable Development”

November 7-8, 2014

Oradea, Romania

in collaboration with

University of Debrecen (Hungary)

University of Szeged (Hungary)

Technological Education Institute of Thessaloniki (Greece)

University of Leon (Spain)

Slovak University of Agriculture in Nitra (Slovakia)

University Of 'S-Hertogenbosch (Olanda)

University “Politehnica” Timișoara (Romania)

University of West Hungary, Faculty of Forestry, Faculty of Wood

under the patronage of
Minister of National Education

Organizing Committee of Symposia

President: Prof. **Ioan Chereji**, PhD, Dean, Faculty of Environmental Protection, University of Oradea (Romania)

Vice-presidents: Prof. **Ioan Mintaș**, PhD, Vice-dean, Faculty of Environmental Protection, University of Oradea (Romania)

Assoc.Prof. **Andra Lazăr**, PhD, Vice-dean, Faculty of Environmental Protection, University of Oradea (Romania)

Lecturer **Lucian Roman**, PhD, Vice-dean, Faculty of Environmental Protection, University of Oradea (Romania)

Scientific secretary: Prof. **Cornel Domușa**, PhD, Head of Environmental Engineering Department, Faculty of Environmental Protection, University of Oradea (Romania)

Members:

Prof. **Gheorghe Bandici**, PhD, Head of Agriculture Department, Faculty of Environmental Protection, University of Oradea (Romania)

Prof. **Ioan Vlad**, PhD, Head of Forestry Department, Faculty of Environmental Protection, University of Oradea (Romania)

Assoc.Prof. **Cristina Maerescu**, PhD, Head of Animal Husbandry and Agritourism Department, Faculty of Environmental Protection, University of Oradea (Romania)

Lecturer **Adrian Timar**, PhD, Head of Food Engineering Department, Faculty of Environmental Protection, University of Oradea (Romania)

Prof. **Jose Luis Vázquez-Burguete**, PhD, Vice-rector, University of Leon (Spain)

Prof. **Jávor András**, PhD, Vice-rector University of Debrecen (Hungary)

Prof. **Keszthelyi-Szabó Gábor**, PhD, Dean, Faculty of Engineering Szeged (Hungary)

Prof. **Kömlösi István**, PhD, Dean, Faculty of Agricultural and Food Sciences and Environmental Management, University of Debrecen (Hungary)

Prof. **Nagy János**, PhD, President Centre for Agricultural and Applied Economic Sciences, Vice-rector, University of Debrecen (Hungary)

Prof. **Pető Károly**, PhD, Dean, Faculty of Economics and Rural Development, Debrecen (Hungary)

Prof. **Pepó Péter**, PhD, Director Research Institute Centre for Agricultural and Applied Economic Sciences, University of Debrecen (Hungary)

Prof. **Kátai János**, PhD, Faculty of Agricultural and Food Sciences and Environmental Management, Director of Department, University of Debrecen (Hungary)

Prof. **Tamás János**, PhD, Faculty of Agricultural and Food Sciences and Environmental Management, University of Debrecen (Hungary)

Prof. **Rubos Thanassis**, PhD, Technological Education Institute of Thessaloniki (Greece)

Prof. **Teodor Eugen Man**, PhD, University “Politehnica” Timișoara (Romania)

Prof. **Mario Giorgi Usturoi**, PhD, “Ion Ionescu de la Brad” University of Agricultural Sciences and Veterinary Medicine of Iași (Romania)

Prof. **Juliana Molnárova**, PhD, Slovak University of Agriculture, Nitra (Slovakia)

Prof. **Csép Nicolae**, PhD, Faculty of Environmental Protection, University of Oradea (Romania)

Prof. **Gheorghe Ciobanu**, PhD, Faculty of Environmental Protection, University of Oradea (Romania)

Prof. **Mircea Curilă**, PhD, Faculty of Environmental Protection, University of Oradea (Romania)

Assoc.Prof. **Radu Brejea**, PhD, Faculty of Environmental Protection, University of Oradea (Romania)

Publication committee:

Ioana Borza, PhD; **Anamaria Supuran**, PhD; **Ioana Chebeleu**, PhD; **Anna Peres**, PhD; **Anca Chereji**, PhD; **Ionuț Chereji**, PhD; **Eugenia Jude**, PhD; **Adrian Vușcan** PhD; **Cristian Oneț**, PhD; **Aurelia Oneț**, PhD; **Manuel Gița**, PhD; **Eliza Agud**, PhD; **Codruța Lucaci** PhD; **Mariana Bei** PhD; **Anamaria Morna**, PhD; **PhD; Eugenia Șerban**, PhD

Science Editor: Prof. **Ioan Chereji**, PhD
Publisher: Prof. **Cornel Domuța**, PhD

Production Editors:

Prof. **Gheorghe Bandici**, PhD
Prof. **Ioan Vlad**, PhD
Assoc. Prof. **Cristina Maerescu**, PhD
Lecturer **Adrian Timar**, PhD
Prof. **Ioan Mîntăș**, PhD
Assoc. Prof. **Andra Lazăr**, PhD
→ Lecturer **Lucian Roman**, PhD ✓
Prof. **Mircea Curilă**, PhD

Scientific Board

AGRONOMY

Prof. **Gheorghe Ciobanu**, PhD, Romania
Prof. **Pepó Péter**, PhD, Hungary
Prof. **Káta János**, PhD, Hungary
Prof. **Magdaléna Lacko-Bartošová**,
PhD, Slovakia
Prof. **Juliana Motuárova**, PhD, Slovakia
Prof. **Csép Nicolae**, PhD, Romania
Lecturer **Ioana Borza**, PhD, Romania

HORTICULTURE

Prof. **Viorel Șcheau**, PhD, Romania
Prof. **Rubos Thanassis**, PhD, Greece
Prof. **Thomas Thomidis**, PhD, Greece
Prof. **Elena Bucurean**, PhD, Romania
Prof. **Viorel Chereji**, PhD, Romania
Assoc. Prof. **Mariana Vlad**, PhD, Romania
Lecturer **Manuel Gîtea**, PhD, Romania

**ANIMAL HUSBANDRY AND
AGRITOURISM**

Prof. **Daniel Mierliță**, PhD, Romania
Prof. **Nábrádi András**, PhD, Hungary
Prof. **Komlósi István**, PhD, Hungary
Prof. **Ioan Văcaru Opreș**, PhD, Romania
Prof. **Mario Giorgi Usturoi**, PhD, Romania
Prof. **Benone Păsărin**, PhD, Romania
Prof. **Ion Dona**, PhD, Romania
Assoc. Prof. **Cristina Tindecu**, PhD, Romania

FORESTRY

Prof. **Adrian Timofte**, PhD, Romania
Assoc. Prof. **Ecaterina Fodor**, PhD, Romania
Assoc. Prof. **Gabriel Cheregi**, PhD, Romania
Lecturer **Voichița Timiș-Gânsac**, PhD,
Romania
Lecturer **Stelian Pantea**, PhD, Romania
Lecturer **Bartha Szilárd**, PhD, Romania

ENVIRONMENTAL ENGINEERING

Prof. **Teodor Eugen Man**, PhD, Romania
Prof. **Lazányi János**, PhD, Hungary
Prof. **Nicu Cornel Sabău**, PhD, Romania
Assoc. Prof. **Vasile Laslo**, PhD, Romania
Assoc. Prof. **Radu Brejea**, PhD, Romania
Lecturer **Tamara Romocea**, PhD, Romania
Lecturer **Emilia Pantea**, PhD, Romania

FOOD SCIENCE AND TECHNOLOGY

Prof. **Gheorghe Sarca**, PhD, Romania
Prof. **Véha Antal**, PhD, Hungary
Assoc. Prof. **Maria Șandor**, PhD, Romania
Assoc. Prof. **Cornelia Păreăreă**, PhD,
Romania
Assoc. Prof. **Simona Vicaș**, PhD, Romania
Assoc. Prof. **Aurora Venig**, PhD, Romania
Lecturer **Cristian Domuța**, PhD, Romania

MISCELLANEOUS

Prof. **Jose Luis Vázquez-Burguete**, PhD,
Spain
Prof. **Pakurar Miklos**, PhD, Hungary
Prof. **Radócz Laszló**, PhD, Hungary
Assoc. Prof. **Camelia Bara**, PhD, Romania
Lecturer **Monica Costea**, PhD, Romania
Lecturer **Anca Chereji**, PhD, Romania
Lecturer **Mircea Șandor**, PhD, Romania

Sections of International Symposia

Section 1

AGRICULTURE – HORTICULTURE

Chairman: Prof. **Gheorghe Bandici**, PhD
Moderators: Prof. **Gheorghe Ciobanu**, PhD
Prof. **Viorel Șcheau**, PhD
Prof. **Csép Nicolae**, PhD
Assoc. Prof. **Andra Lazăr**, PhD
Assoc. Prof. **Mariana Vlad**, PhD
Secretaries: Lecturer **Ioana Borza**, PhD
Lecturer **Manuel Gîtea**, PhD

Section 2

ENVIRONMENTAL ENGINEERING

Chairman: Prof. **Cornel Domuța**, PhD
Moderators: Prof. **Nicu Cornel Sabău**, PhD
Prof. **Mircea Curilă**, PhD
Assoc. Prof. **Vasile Laslo**, PhD
Assoc. Prof. **Radu Brejea**, PhD
Lecturer **Tamara Romocea**, PhD
Secretaries: Lecturer **Cristian Oneț**, PhD
Lecturer **Eliza Agud**, PhD

Section 3
FOOD SCIENCE AND TECHNOLOGY

Chairman: Lecturer Adrian Timar, PhD
Moderators: Prof. Gheorghe Sarca, PhD
Assoc. Prof. Maria Şandor, PhD
Assoc. Prof. Cornelia Purcărea, PhD
Assoc. Prof. Simona Vicaş, PhD
Secretaries: Lecturer Anca Brata, PhD
Lecturer Anamaria Morna, PhD

Section 4
FORESTRY

Chairman: Prof. Ioan Vlad, PhD
Moderators: Prof. Adrian Timofte, PhD
Assoc. Prof. Ecaterina Fodor, PhD
Assoc. Prof. Gabriel Cheregi, PhD
Lecturer Stelian Pantea, PhD
Secretaries: Lecturer Codruţa Lucaci, PhD
Lecturer Bartha Szilárd, PhD

Section 5
ANIMAL HUSBANDRY AND AGRITOURISM

Chairman: Prof. Ioan Chereji, PhD
Moderators: Prof. Dan Mierliţă, PhD
Assoc. Prof. Cristina Maerescu, PhD
Lecturer Lucian Roman, PhD
Lecturer Anca Chereji, PhD
Secretaries: Lecturer Ioana Chebeleu, PhD
Lecturer Ionuţ Chereji, PhD

CONTENTS

Timetable	8
<i>AGRICULTURE</i>	9
<i>HORTICULTURE</i>	11
<i>ANIMAL HUSBANDRY</i>	13
<i>FORESTRY</i>	14
<i>ENVIRONMENTAL ENGINEERING</i>	17
<i>FOOD SCIENCE AND TECHNOLOGY</i>	20
<i>AGRITOURISM</i>	22
<i>MISCELLANEOUS</i>	23