



The National University of Science and Technology  
POLITEHNICA Bucharest  
Pitești University Centre



*International Symposium*  
**Current Trends in Natural Sciences**  
*Program*

May 21-23, 2026

**International partners:**

Mansoura University,  
Egypt



Atatürk University,  
Erzurum, Turkey



Zaporizhzhia National University,  
Zaporizhzhia, Ukraine



<http://natsci.upit.ro/international-symposium/>



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(alphabetical order)

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Monica POPESCU – The National University of Science and  
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Ion SCURTU - The Academy for Agricultural and Forestry Sciences – Horticulture Section

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-

- Zeki GÖKALP - Erciyes University, Kayseri, Turkey  
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Science and Technology POLITEHNICA Bucharest, Pitești  
University Centre, Romania
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- Aydin UZUN - Erciyes University, Turkey
- Mehmet YAMAN - Erciyes University, Turkey

**In-Person Session**  
**Ramada Hotel Pitesti – Topaz Conference Room**

**Thursday, 21 May 2026**

08:30 – 09:30 - Registration & Welcome Coffee

09:30 – 09:40 - Opening Speeches

09:40 – 12:00 - Paper Presentations

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***Chairpersons:***

*Muzaffer DÜKEL, PhD, Burdur Mehmet Akif Ersoy University,  
Burdur, Turkey*

*Monica NEBLEA, PhD, The National University of Science and  
Technology POLITEHNICA Bucharest, Pitești University  
Centre, Romania*

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1. FRONTIERS IN ECO-INNOVATIVE TECHNOLOGIES FOR  
ADVANCED WATER QUALITY MONITORING AND  
SUSTAINABLE REMEDIATION

Radu Claudiu FIERASCU, Irina Elena CHICAN,  
Anda Maria BAROI, Cristina Emanuela ENASCUTA, Roxana Ioana  
MATEI, Toma FISTOS, Ioana Silvia Hosu, Irina FIERASCU  
Senior researcher dr. habil. Radu Claudiu FIERASCU – keynote  
speaker

2. FULL HIGH ADDED VALUE RECOVERY OF  
AGRICULTURAL GREEN RESIDUAL BIOMASS TO  
PROMOTE CIRCULAR BIOECONOMY

Myriam LAMINE, Ahmed MLIKI

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3. INVENTORY OF CLERIDS (COLEOPTERA: CLERIDAE)  
FROM THE ENTOMOLOGICAL COLLECTIONS OF THE  
REPUBLIC OF MOLDOVA

Svetlana BACAL, Galina BUŞMACHIU

4. EFFICACY AND ENVIRONMENTAL RISKS OF  
CHEMOTHERAPEUTIC AND ANTIPARASITIC  
APPLICATIONS IN AQUACULTURE: THE CASE OF  
TÜRKİYE

Deniz İNNAL

5. INVESTIGATION OF NEW FUNGAL STRAINS WITH  
ENTOMOPATHOGENIC POTENTIAL ISOLATED FROM  
THE MICROFLORA OF THE POTATO PEST  
LEPTINOTARSA DECEMLINEATA (SAY) (COLEOPTERA:  
CHRYSOMELIDAE).

Ecaterina DONI, Anna MOLDOVAN

6. NEST PARAMETERS AND EGG-HATCHLING  
RELATIONSHIPS OF THE AFRICAN SOFTSHELL TURTLE  
(TRIONYX TRIUNGUIS) ON BELEK BEACH, TÜRKİYE

Fatih POLAT, Deniz İNNAL

7. COLEOPTERA FROM THE SOUTHERN PART OF THE  
REPUBLIC OF MOLDOVA AS BIOINDICATORS OF THE  
STATE OF STEPPE ECOSYSTEMS

Sorina ISTRATI, Anna MOLDOVAN

8. PROMOTING SUSTAINABLE FARMING THROUGH CAP  
ECO-SCHEMES (2023–2027): IMPLEMENTATION  
REQUIREMENTS, FARMER ENGAGEMENT, AND  
STRATEGIC INTEGRATION

Cristian POPESCU, Monica POPESCU

9. INTEGRATIVE ANALYSIS OF miRNA EXPRESSION PROFILES IN MULTIPLE CANCER TYPES FOR ANOIKIS RESISTANCE DURING ANCHORAGE-INDEPENDENT GROWTH

Muzaffer DÜKEL

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*MDS ELECTRIC SRL, Romania (Sorin BOGDAN, General Manager): Advanced Research Equipment for Experimental Natural Sciences*

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12:00 – 13:00 - Lunch break

13:00 – 14:50 - Paper presentations

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***Chairpersons:***

*Mehmet YAMAN, PhD, Erciyes University, Kayseri, Turkey*

*Cristian POPESCU, PhD, The National University of Science and Technology POLITEHNICA Bucharest, Pitești University Centre, Romania*

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10. EFFECTS OF DIFFERENT PARTICLE FILM COATINGS APPLIED FOLIARLY TO APPLE TREES

Oğuz SAĞLAM, Ercan YILDIZ, Mehmet YAMAN

11. EVALUATION OF MORPHOLOGICAL DIVERSITY BASED ON LEAF AND FRUIT TRAITS IN ROSEHIP (ROSA SPP.) GENOTYPES USING PRINCIPAL COMPONENT ANALYSIS

Halit ALKAN, Ercan YILDIZ, Ahmet SÜMBÜL, Mehmet YAMAN

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12. THE STRATEGIC IMPORTANCE AND CONTEMPORARY APPROACHES OF MOLECULAR MARKER USAGE IN COMMON BEAN (*PHASEOLUS VULGARIS* L.) BREEDING  
Mehmet YAMAN, Ahmet SAY, Serap DEMİREL, Fatih DEMİREL, Adnan AYDIN, Halil İbrahim ÖZTÜRK, Barış EREN, Yadigar Leyla DOĞAN, Muhammed Ali KÖSE
13. EMBRYO ABORTION IN STONE FRUIT SPECIES  
Muhammed Ali KÖSE, Mehmet YAMAN, Kadir Uğurtan YILMAZ, Yazgan TUNÇ , Ömer ATAGÜL
14. ENHANCED PHYTOREMEDIATION OF SOIL CONTAMINATED WITH CHLORPYRIFOS BY *LACTUCA SATIVA*  
Silviu-Laurentiu BADEA, Ovidiu-Ionut JERCA, Liliana-Aurelia BADULESCU
15. VALIDATION OF THE ROMANIAN VERSION OF THE PERCEIVED STRESS QUESTIONNAIRE  
Alina Sanda BĂLAN, Andreea STAN
16. DEVELOPMENTS IN THE SYNTHESIS, CHARACTERIZATION AND APPLICATIONS OF CATIO3 FOR DEGRADATION OF POLLUTANTS IN WATERS  
Florin CĂLIN-ISTRATE, Alina-Mihaela TRUTA, Daniela ISTRATE
17. SHIFTING THE PROTEIN SUSTAINABILITY PARADIGM FROM SCARCITY TO NUTRITIONAL EFFICIENCY  
Nicoleta Anca ŞUŢAN, Liliana Cristina SOARE, Oana BOTORAN, Roxana IONETE, Diana Ionela POPESCU (STEGARUS), Ovidiu Cristian OPREA
18. COMPARATIVE STUDY ON FRUIT QUALITY OF CURRANT CULTIVARS  
Oana HERA, Monica STURZEANU, Adrian ASĂNICĂ
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14:50 – 15:00 - Break

15:00 – 16:30 - E-poster presentations

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**Chairpersons:**

*Daniela BĂRBUCEANU, PhD, The National University of Science and Technology POLITEHNICA Bucharest, Pitești University Centre, Romania*

*Ionica DELIU, PhD, The National University of Science and Technology POLITEHNICA Bucharest, Pitești University Centre, Romania*

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19. THE COMBINED EFFECT OF MICROELEMENTS AND THE PELICULOGEN ADJUVANT ON ENHANCING THE PRODUCTIVE POTENTIAL OF THE GRAPE VINE (*Vitis vinifera* L.)

Tatiana DAVID

20. PCR-BASED SCREENING OF INSECTICIDAL CRY2-TYPE GENES IN NATIVE BACILLUS SPP. STRAINS FROM THE REPUBLIC OF MOLDOVA

Natalia COLODRIVSCAIA, Nadejda BASARAB,  
Anna MOLDOVAN

21. FATTY ACID PROFILE OF THE INVASIVE LIONFISH PTEROIS MILES FROM MARMARIS GULF, TÜRKİYE

Mahmut KAÇMAZ<sup>1\*</sup>, Deniz İNNAL

22. EVALUATION OF THE ANTAGONISTIC POTENTIAL OF *BEAUVERIA SPP.* STRAINS AGAINST *FUSARIUM OXYSPORUM* IN DUAL CULTURE ASSAY

Arina GRINCO, Anna MOLDOVAN

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23. TEMPERATURE EFFECTS ON THE IN VITRO GERMINATION OF ENTOMOPATHOGENIC FUNGAL STRAINS OF THE GENUS *BEAUVERIA* ISOLATED FROM THE REPUBLIC OF MOLDOVA  
Nadejda BASARAB, Anna MOLDOVAN
24. THE EFFECT OF NATURAL BIOSTIMULATES ON THE MODIFICATION OF THE CONTENT OF PHOTOSYNTHETIC PIGMENTS AND PROTECTIVE COMPOUNDS IN THE ORGANS OF VINE PLANTS (*Vitis vinifera* L.)  
Leonid POPOV
25. BEYOND WASTE: A REVIEW OF AGRICULTURAL RESOURCE VALORIZATION FOR CLIMATE ACTION  
Irina FIERASCU, Anda Maria BAROI, Radu Claudiu FIERASCU, Roxana Ioana MATEI, Toma FISTOS, Ioana Silvia HOSU, Irina Elena CHICAN, Nicoleta RADU
26. FROM LABORATORY TO APPLICATION: TAILORED NANOMATERIALS FOR DURABLE CONSERVATION OF CULTURAL HERITAGE  
Radu Claudiu FIERASCU, Anda Maria BAROI, Roxana Ioana MATEI, Toma FISTOS, Ioana Silvia HOSU, Irina FIERASCU, Irina Elena CHICAN, Madalin Vasile COMAN, Denisa FICAI, Anton FICAI
27. SUSTAINABLE RECOVERY OF NATURAL SURFACTANTS FROM SELECTED PLANT SOURCES  
Irina Elena CHICAN, Irina FIERASCU, Anda Maria BAROI, Radu Claudiu FIERASCU, Roxana Ioana MATEI, Toma FISTOS, Ioana Silvia HOSU, Daniela IONESCU

28. NANOMATERIALS A PROMISING ANTIBACTERIAL SOLUTION FOR CONSTRUCTION MATERIALS  
Irina FIERASCU, Anda Maria BAROI, Radu Claudiu FIERASCU, Roxana Ioana MATEI, Toma FISTOS, Ioana Silvia Hosu, Irina Elena CHICAN, Mara Lia DITU, Adriana MOANTA, Ionela PETRE
29. FROM WASTE TO VALUE: NATURAL EXTRACTS AS ANTIMICROBIAL AND BIOSTIMULANT AGENTS IN AGRICULTURE  
Radu Claudiu FIERASCU, Anda Maria BAROI, Roxana Ioana MATEI, Toma FISTOS, Ioana Silvia HOSU, Irina FIERASCU, Irina Elena CHICAN, Mara Lia DITU, Daniela IONESCU
30. ORNITHOLOGICAL OBSERVATIONS IN THE AREA OF ŞTRAND AND LUNCA ARGEŞULUI PARKS. THE PREVERNAL AND VERNAL SEASONS  
Maria Denisa CONETE, Dănuţ – Mihai MARIN, David Ştefan PLĂMADĂ
31. PRODUCTIVE AND BIOCHEMICAL PERFORMANCE OF SOME CORN HYBRIDS UNDER THERMO-HYDRO STRESS CONDITIONS ON ACIDIC SOILS AT ARDS PITEŞTI IN 2025  
Mariana Cristina NICOLAE, Maria Magdalena PODEA, Cristina GHIORGHE, Robert Marian GHEORGHE, Cătălin DINUŢĂ, Oana Daniela BADEA, Diana Maria POPESCU
32. BEHAVIOR OF SOME TRITICALE LINES IN THE PEDOCLIMATIC CONDITIONS OF ARDS PITEŞTI  
Marian-Robert GHEORGHE, Cristina GHIORGHE, Mariana Cristina NICOLAE, Maria-Magdalena PODEA, Andreea-Sabina PINTILIE

33. THE BEHAVIOR OF SOME ROMANIAN WHEAT VARIETIES

Cristina GHIORGHE, Marian-Robert GHEORGHE,  
Mariana Cristina NICOLAE, Cătălin Ilie DINUȚĂ,  
Maria-Magdalena PODEA

34. STUDY ON THE RESISTANCE OF SOME TRITICALE (TRITICOSECALE WITTMACK) GENOTYPES TO PUCCINIA STRIIFORMIS INFECTION IN THE 2023 CLIMATIC CONDITIONS AT ARDS PITEȘTI

Maria-Magdalena PODEA, Cătălin DINUȚĂ, Cristina GHIORGHE,  
Mariana-Cristina NICOLAE, Diana Maria POPESCU, Oana-Daniela BADEA, Marian Robert GHEORGHE

35. EFFECTS OF FERTILIZATION WITH PHOSPHATE ROCK AND BIOSTIMULANTS ON CORN

Diana Maria POPESCU, Oana Daniela BADEA,  
Maria Magdalena PODEA, Cătălin Ilie DINUȚĂ

36. THE INFLUENCE OF APPLYING CALCIUM CARBONATE (CaCO<sub>3</sub>) IN DIFFERENT FORMS ON SOYBEAN CROP

Oana Daniela BADEA, Diana Maria POPESCU, Costică CIONTU

16:30 – 17:00

- Questions & Answers
- Discussions & Future cooperations
- Conclusions
- Certificates

**Online Session**  
**Microsoft Teams Meeting**

**Thursday, 21 May 2026**

10:00 – 10:10 - Opening Speeches

10:10 – 13:30 - Paper Presentations

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***Chairpersons:***

*Olena BOIKA, PhD, Zaporizhzhia National University, Ukraine*

*Alina Mihaela TRUȚĂ, PhD, The National University of Science and  
Technology POLITEHNICA Bucharest, Pitești University  
Centre, Romania*

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1. GERMINATION OF SEEDS OF ELAEAGNUS  
ANGUSTIFOLIA USING DIFFERENT SEED  
STRATIFICATION TREATMENTS

Aydın UZUN, Hasan Talha ÜNSAL, Hasan PINAR

2. NEW INVASIVE INSECT SPECIES IN PITEȘTI (ROMANIA)

Daniela BĂRBUCEANU

3. FT-IR-BASED CHARACTERIZATION AND FUNCTIONAL  
PROPERTY ASSESSMENT OF APPLE BY-PRODUCTS

Fulvia-Ancuta MANOLACHE, Elena-Loredana CÎRSTOIU,  
Bogdan-Mihai NICOLCIOIU, Cătălina-Beatrice POTERAȘ

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4. FUNCTIONAL AND TECHNOLOGICAL IMPLICATIONS OF USING NATURAL ALTERNATIVES TO SYNTHETIC ASCORBIC ACID IN BAKERY PRODUCTS

Nicoleta Diana ZAHARESCU, Simona OANCEA

5. ROOTING OF SOME LOCAL GRAPEVINE GENOTYPES CUTTINGS FROM KAYSERI REGION BY DIFFERENT METHODS

Hasan Talha ÜNSAL, Aydın UZUN, Hasan PINAR

6. CLONALITY IS NOT ENOUGH: REPRODUCTIVE STRATEGY AND CONSERVATION OF SCOPOLIA CARNIOLICA JACQ.

Karolina TYMOSZUK-RYDZEWSKA, Bożena DENISOW

7. BIOCHAR EFFECTS ON TREE SEEDLINGS GROWTH UNDER PARTICULATE MATTER STRESS

Milda MURAŠKIENĖ, Iveta VARNAGIRYTĖ-KABAŠINSKIENĖ, Vytautas SUCHOCKAS, Miglė VAIČIUKYNĖ

8. PHYSIOLOGICAL INDICATORS OF RESISTANCE TO LOW TEMPERATURES IN DIFFERENT SPECIES OF THE GENUS ROSA L.

Olena Boika, Olena Dubova

9. SOCIAL BEHAVIORAL ALTERATIONS IN DANIO RERIO FOLLOWING COMBINED EXPOSURE TO CEFTAZIDIME AND POLYSTYRENE MICROPLASTICS

Ramona-Alexandra CIAUSU, Ionut-Alexandru CHELARU, Dorel URECHE, Andrei-Gabriel ANDRONIC, Alin-Stelian CIOBICA, Mircea Nicusor NICOARA

10. IMPACT OF DIFFERENT CROPPING PATTERNS ON SOIL ERODIBILITY (K FACTOR)

Saniye DEMİR

11. MORPHOLOGICAL CHARACTERIZATION OF PEPPER GENOTYPES OF KYRGYZ ORIGIN  
Seda DEMIR, Hasan PINAR, Aydın UZUN, Hasan Talha ÜNSAL
12. ENTOMOFAUNA FROM THE DECIDUOUS FORESTS MÂRZEȘTI AND URICANI (IAȘI COUNTY), NATURA 2000 PROTECTED SITES  
Tatiana BLAGA, Camil Ștefan LUNGU CONSTANTINEANU
13. TREE SEEDLING RESPONSES TO PARTICULATE MATTER ALONE AND IN COMBINATION WITH O<sub>3</sub> AND CO<sub>2</sub>  
Valentinas ČERNIAUSKAS,  
Iveta VARNAGIRYTĖ-KABAŠINSKIENĖ
14. DETERMINATION OF THE ANTIBACTERIAL EFFECT OF THE METHANOLIC EXTRACT OBTAINED FROM PSEUDEPHEBE PUBESCENS, A LICHEN SPECIES WITH A WIDE DISTRIBUTION IN ANTARCTICA  
Yağız Efe GÖZBAŞI, Nazmi Yiğit GÖZBAŞI,  
Mehmet Gökhan HALICI, Mithat GÜLLÜ
15. FLOWERING DYNAMICS OF *NIGELLA DAMASCENA* L.  
Zuzanna ŁABĘCKA, Bożena DENISOW,  
Monika STRZAŁKOWKSA-ABRAMEK
16. THE ROLE OF FOLIAR BIOSTIMULANTS IN OPTIMIZING FRUIT AND SEED YIELD IN TOMATOES AND EGGPLANTS  
Delia Cristina CONSTANTIN, Mihaela PARASCHIV,  
Ion SCURTU, Ileana COSTACHE

13:30 – 14:30 - E-poster presentations

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**Chairpersons:**

*Codruța Mihaela DOBRESCU, PhD, The National University of Science and Technology POLITEHNICA Bucharest, Pitești University Centre, Romania*

*Oana Alexandra LUȚU, PhD, The National University of Science and Technology POLITEHNICA Bucharest, Pitești University Centre, Romania*

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17. A HYBRID PHOTOCATALYTIC STRATEGY FOR DICLOFENAC ELIMINATION: COUPLING TIO<sub>2</sub>-BASED CATALYSIS WITH PHOTO-FENTON-LIKE REACTIONS

Cristina Emanuela ENASCUTA, Elena-Emilia SIRBU, Radu Claudiu FIERASCU, Irina FIERASCU, Toma FISTOS, Grigore PSENOVSCHI, Sorin Marius AVRAMESCU

18. DEVELOPMENT OF PILOT INTEGRATED CULTIVATION PROTOCOLS FOR HIGH-QUALITY FLORICULTURAL PRODUCTS OF THE GREEK NATIVE TULIPA AUSTRALIS AND TULIPA ORPHANIDEA

Eleftherios KARAPATZAK, Ioulietta SAMARTZA, Ioannis PLASTIRAS, Panagiotis PAPADOPOULOS, Parthenopi RALLI, Nikos KRIGAS, Georgios TSOKTOURIDIS

19. LEAN MANAGEMENT IN FOOD INDUSTRY

Emanuela Catalina MILU

20. THE IMPACT OF ARTESIAN WATER IRRIGATION ON THE EDAPHIC FAUNA OF CALCAREOUS CHERNOZEM UNDER A VINEYARD

Irina SENICOVSICAIA, Andrei DANILOV, Iurii ROZLOGA

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21. ELECTROCHEMICAL-SURFACE ENHANCED RAMAN SPECTROSCOPY METAL PHTHALOCYANINE-BASED BIMODAL SENSORS FOR THE DETECTION OF REACTIVE OXYGEN SPECIES IN PLANT-RELATED SAMPLES, FOR BIOSTIMULANT TREATMENT VALIDATION (EC-SER(O)S)

Ioana Silvia HOSU, Anda Maria BAROI, Roxana Ioana MATEI (BRAZDIȘ), Toma FISTOȘ, Irina CHICAN, Irina FIERĂSCU, Radu-Claudiu FIERĂSCU, Alexandru RUSU, Andrei Ionuț COCA

22. COSTS AND BENEFITS OF HEXANOIC ACID TREATMENT AND PRIMING IN TOMATO PLANTS

Alba Maria MARTÍNEZ GUIRADO, Sandra BORREGO VIEJO, Samuel ALBALATE CASINO, Luisa LIU XU, Lorena SÁNCHEZ-GIMÉNEZ, Loredana SCALSCHI, Eugenio LLORENS, Gemma CAMAÑES, Begonya VICEDO

23. LABORATORY METHODS FOR ASSESSING BIOCHEMICAL METHANE POTENTIAL (BMP) IN LIVESTOCK MANURE: A NARRATIVE REVIEW

Oana Maria TANISLAV, Simona OANCEA, Marius CONSTANTINESCU, Felicia BUCURA, Antoaneta ROMAN, Anca ZAHARIOIU

24. EXPLORING PERSONAL SPACE - FROM THINKING TO PERSONAL DEVELOPMENT

Ileana-Loredana VITALIA, Nicoleta RĂBAN-MOTOUNU

25. EFFECT OF SWEET POTATO FLOUR ADDITION ON BISCUIT NUTRITIONAL AND SENSORIAL QUALITY, AND ACRYLAMIDE FORMATION

Adriana Laura MIHAI, Alina Cristina ADASCĂLULUI, Mihaela MULȚESCU, Cristian FLOREA, Gabriela Daniela CRIVEANU-STAMATIE, Alina-Nicoleta PARASCHIV, Denisa Eglantina DUȚĂ, Mioara NEGOIȚĂ

26. THE IMPACT OF CLIMATE CHANGE ON BIODIVERSITY

Georgiana CORBU

27. RENEWABLE ENERGY SOURCES AND THEIR ROLE IN  
ENVIRONMENTAL PROTECTION

Emilia IANCU

14:30 – 15:00

- Questions & Answers
- Discussions & Future cooperations
- Conclusions

