



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 Technology POLITEHNICA Bucharest, Pitești University Centre, Romania

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Telat YANIK – Agri Ibrahim Cecen University, Turkey

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(alphabetical order)

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Development in Chemistry and Petrochemistry, ICECHIM,
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Radu Claudiu FIERASCU - The National Institute for Research &
Development in Chemistry and Petrochemistry, ICECHIM,
Bucharest, Romania
-

- Zeki GÖKALP - Erciyes University, Kayseri, Turkey
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Science and Technology POLITEHNICA Bucharest, Pitești
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- Ion SCURTU - The Academy for Agricultural and Forestry Sciences
– Horticulture Section, Romania
- Yasser SHABANA - Mansoura University, Egypt
- Liliana Cristina SOARE - The National University of Science and
Technology POLITEHNICA Bucharest, Pitești University
Centre, Romania
- Daniela Ileana STANCU - Arges County Museum, Romania
- Nicoleta Anca SUTAN - The National University of Science and
Technology POLITEHNICA Bucharest, Pitești University
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Czestochowa, Poland
- 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 - 12.30: Paper Presentations

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*

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

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

12.30 - 13.30: Lunch break

13.30 – 15.30: Paper presentations

Chairpersons:

Mehmet YAMAN, PhD, Erciyes University, Kayseri, Turkey

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

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

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 ȘUȚAN, 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

15.30 - 15.40: Break

15.40 – 17.00: E-poster presentations

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

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. 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

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

Mahmut KAÇMAZ^{1*}, Deniz İNNAL

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

Arina GRINCO, Anna MOLDOVAN

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 (CaCO₃) IN DIFFERENT FORMS ON SOYBEAN CROP

Oana Daniela BADEA, Diana Maria POPESCU, Costică CIONTU

17.00 - 17.30:

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

Online Session
Microsoft Teams Meeting

Thursday, 21 May 2026

10.00 - 10.10: Opening Speeches

10.10 – 12.10: Paper Presentations

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*

1. ENZYMATIC REGULATION POTENTIAL OF
EXTREMOTOLERANT ISOLATES AND THEIR
APPLICATION PROSPECTS IN VITICULTURE

Ahmet Enes URAY, Yahya URAY, Semih YILMAZ

2. ENZYMATIC REGULATION POTENTIAL OF
EXTREMOTOLERANT ISOLATES AND THEIR
APPLICATION PROSPECTS IN VITICULTURE

Ahmet Enes URAY, Yahya URAY, Semih YILMAZ, Bülent KÖSE

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

Aydmn UZUN, Hasan Talha ÜNSAL, Hasan PINAR

4. NEW INVASIVE INSECT SPECIES IN PITEȘTI (ROMANIA)
Daniela BĂRBUCEANU

5. FT-IR-BASED CHARACTERIZATION AND FUNCTIONAL PROPERTY ASSESSMENT OF APPLE BY-PRODUCTS
Fulvia-Ancuta MANOLACHE, Elena-Loredana CÎRSTOIU, Bogdan-Mihai NICOLCIOIU, Cătălina-Beatrice POTERAȘ

6. FUNCTIONAL AND TECHNOLOGICAL IMPLICATIONS OF USING NATURAL ALTERNATIVES TO SYNTHETIC ASCORBIC ACID IN BAKERY PRODUCTS
Nicoleta Diana ZAHARESCU, Simona OANCEA

7. ROOTING OF SOME LOCAL GRAPEVINE GENOTYPES CUTTINGS FROM KAYSERI REGION BY DIFFERENT METHODS
Hasan Talha ÜNSAL, Aydın UZUN, Hasan PINAR

8. CLONALITY IS NOT ENOUGH: REPRODUCTIVE STRATEGY AND CONSERVATION OF SCOPOLIA CARNIOLICA JACQ.
Karolina TYMOSZUK-RYDZEWSKA, Bożena DENISOW

9. BIOCHAR EFFECTS ON TREE SEEDLINGS GROWTH UNDER PARTICULATE MATTER STRESS
Milda MURAŠKIENĖ, Iveta VARNAĠIRYTĖ-KABAŠINSKIENĖ, Vytautas SUCHOCKAS, Miglė VAIČIUKYNĖ

10. PHYSIOLOGICAL INDICATORS OF RESISTANCE TO LOW TEMPERATURES IN DIFFERENT SPECIES OF THE GENUS ROSA L.
Olena Boika, Olena Dubova

11. 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

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

Saniye DEMİR

13. MORPHOLOGICAL CHARACTERIZATION OF PEPPER GENOTYPES OF KYRGYZ ORIGIN

Seda DEMİR, Hasan PINAR, Aydın UZUN, Hasan Talha ÜNSAL

14. ENTOMOFAUNA FROM THE DECIDUOUS FORESTS MÂRZEȘTI AND URICANI (IAȘI COUNTY), NATURA 2000 PROTECTED SITES

Tatiana BLAGA, Camil Ștefan LUNGU CONSTANTINEANU

15. TREE SEEDLING RESPONSES TO PARTICULATE MATTER ALONE AND IN COMBINATION WITH O₃ AND CO₂

Valentinas ČERNIAUSKAS,
Iveta VARNAGIRYTĖ-KABAŠINSKIENĖ

16. 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

17. FLOWERING DYNAMICS OF *NIGELLA DAMASCENA* L.

Zuzanna ŁABĘCKA, Bożena DENISOW,
Monika STRZAŁKOWKSA-ABRAMEK

12.30 - 13.30: Lunch break

13.30 – 14.30: E-poster presentations

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

18. A HYBRID PHOTOCATALYTIC STRATEGY FOR DICLOFENAC ELIMINATION: COUPLING TIO₂-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

19. 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 PAPAPOULOS, Parthenopi RALLI, Nikos KRIGAS, Georgios TSOKTOURIDIS

20. LEAN MANAGEMENT IN FOOD INDUSTRY

Emanuela Catalina MILU

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

Irina SENICOVSICAIA, Andrei DANILOV, Iurii ROZLOGA

22. 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

23. 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

24. 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

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. EXPLORING PERSONAL SPACE - FROM THINKING TO PERSONAL DEVELOPMENT

Ileana-Loredana VITALIA, Nicoleta RĂBAN-MOTOUNU

27. THE IMPACT OF CLIMATE CHANGE ON BIODIVERSITY

Georgiana CORBU

28. RENEWABLE ENERGY SOURCES AND THEIR ROLE IN ENVIRONMENTAL PROTECTION

Emilia IANCU

14.30 - 15.00:

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

