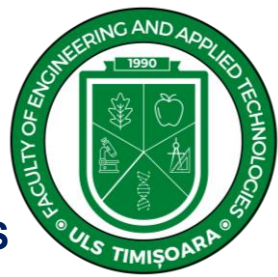




**UNIVERSITY OF LIFE SCIENCES
"KING MIHAI I" FROM TIMISOARA**

FACULTY OF ENGINEERING AND APPLIED TECHNOLOGIES



“Multidisciplinary Conference on Sustainable Development”

Section:

**“Key Research in Horticulture, Landscaping, Forestry and
Plant Biotechnology”**

Event:

***“35 Years of Horticultural Higher Education and Research
in Timisoara”***

Amphitheatre Prof. univ. dr. Codreanu Horea BUTNARIU

15 – 16 May 2025

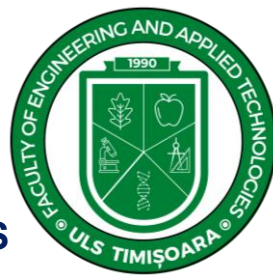
**Conference Section President,
Prof. dr. Dorin CAMEN**





UNIVERSITY OF LIFE SCIENCES "KING MIHAI I" FROM TIMISOARA

FACULTY OF ENGINEERING AND APPLIED TECHNOLOGIES



PROGRAM
15.05.2025

Event

35 Years of Horticultural Higher Education and Research in Timisoara

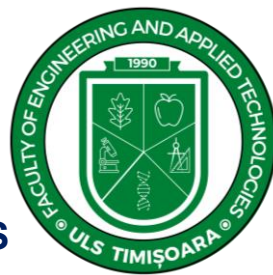
- 14.00-14.30 Welcoming participants
- 14.30-14.35 Opening the event Prof. dr. Dorin CAMEN
- 14.35-16.00 Open guest talks:
 - The management of University of Life Sciences "King Mihai I" from Timișoara
 - The management of horticultural faculties from Romania and Republic of Moldova
 - The management of the Academy of Agricultural and Forestry Sciences "Gheorghe Ionescu-Șișești"
 - The management of Romanian Horticultural Society
 - The management of horticultural research and development stations from Romania
- Professors over the time
- *In memoriam* Prof. dr. Emil DRĂGĂNESCU, Prof. dr. Horea BUTNARIU, Prof. dr. Ioan COSTE, Prof. dr. Gheorghe POPESCU, Prof. dr. Gabriel NEDELEA, Assoc. Prof. dr. Eugen MIHUȚ, Lecturer dr. Ioan MIHALCEA
- 16.00-16.10 Coffee break





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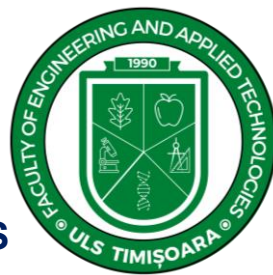
Oral presentations

- 16.10-16.20 Diana BOLOHAN, Mariana Volf, Ioana BUȚERCHI, Lucian RĂUS: The impact of nitrogen fertilization on raspberry yield quality under high temperature conditions
- 16.20-16.30 Monica HÂRȚA, Steliana BARBU, Doina CLAPA, Doru PAMFIL: In vitro culture of Grasă de Cotnari and evaluation of the genetic fidelity using SCoT markers
- 16.30-16.40 Mihály JANCSÓ, Árpád SZÉKELY, Tímea SZALÓKI, Csaba LANTOS, János PAUK: Agronomic performance of doubled haploid rice breeding lines under aerobic conditions in Hungary
- 16.40-16.50 Adelina VENIG, Aurora VENIG, Adrian PETICILĂ, Iordănescu OLIMPIA, Ionuț DASCĂLU: Enhancing the fruit yield and quality in pears using irrigation and fertilization
- 16.50-17.00 Dora ORBOI, Adrian BĂNEȘ, Simona CONSTANTINESCU, Ana DINCU, Andreea PETCOV: Biotechnology in the 21st century: trends, skills and career opportunities
- 17.00-17.10 Ion TRUȘCĂ, Sergiu GORJAN, Raluca POPESCU: Technological links for increasing yield in grafted vines
- 17.10-17.20 Alice BEGE, Boniface KASHINA, Olalekan BANWO, Otilia COTUNA: PCR detection of begomovirus associated with Okra (*Abelmoschus esculentus* L. Moench) disease complex
- 17.20-17.30 Sultănica CRĂCANĂ, Alina ȚENCHE-CONSTANTINESCU: Charlottenburg's landscape diversity assessment
- 17.30-17.40 Vladislava GALOVIĆ, Florin Adrian HUIBAN, Tatjana VUJOVIĆ, Saša ORLOVIĆ, Csaba ÉVA: Genome editing of transporter genes to improve biotic stress in poplar



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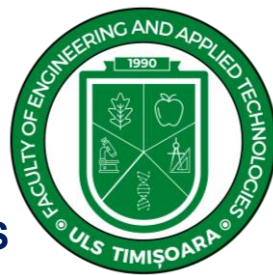
• 17.40-17.50 Ioan TĂUT, Mircea MOLDOVAN, Mircea VARGA, Florin REBREAN:
Control of forest pathogens present in forest crops in the current climatic context

• 17.50-18.00 Vladimir VISACKI, Lazar PAVLOVIC, Dejan STOJANOVIC, Srdjan STOJNIC, Lazar TURSIJAN, Lazar, KESIC, Sasa ORLOVIC: Remote sensing for forestry: assessing tree stress and climate-induced changes in the Vrsac Mountains



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**PROGRAM
16.05.2025**

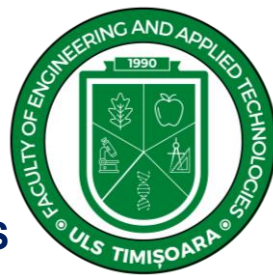
Poster presentations

- 10.00-10.05 Doina CLAPA, Monica HÂRȚA, Ana-Maria RADOMIR, Dorin SUMEDREA, Adrian PETICILĂ, Doru PAMFIL: In vitro propagation and genetic stability assessment of *Plectranthus amboinicus* and *Thymus × citriodorus*
- 10.05-10.10 Jana ŽIAROVSKÁ, Adam KOVÁČIK, Veronika ŠTEFÚNOVÁ: Changes of flax dLUTE marker profile in nutrition deprivation
- 10.10-10.15 Alina BURGOCI, Dariana POPESCU, Alina ȚENCHE-CONSTANTINESCU: Harmonizing urban living and nature through modern private garden design
- 10.15-10.20 Eleonora NISTOR, Alina DOBREI, Mihaela MĂLĂESCU, Dragoș CONSTANTINESCU, Gabriel CIORICA, Alin DOBREI: Berry size and yield influence on grape shape and wine quality
- 10.20-10.25 Eleonora NISTOR, Alina DOBREI, Mihaela MĂLĂESCU, Dragoș CONSTANTINESCU, Gabriel CIORICA, Alin DOBREI: Impact of climate variability on grapevine cultivation and grape quality
- 10.25-10.30 Alina DOBREI, Eleonora NISTOR, Mihaela MĂLĂESCU, Aurica BOROZAN, Dragoș CONSTANTINESCU, Vukohir VINKITS, Alin DOBREI: The quality of grape must and wine in the Buzias area, under the conditions of climate change



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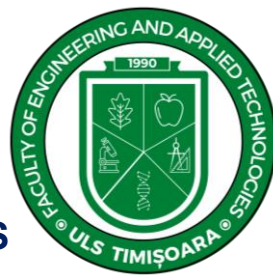


- 10.30-10.35 Sorina POPESCU, Aurica BOROZAN, Oana BOLDURA: Gene expression dynamics in alfalfa under lead-induced stress
- 10.35-10.40 Sándor RÓZSA, Tincuța GOCAN, Claudiu BUNEA, Gheorghe POȘTA, Ileana ANDREICA, Iuliana MOTRESCU, Lehel LUKÁCS: Study on the influence of production process on obtaining marinated garlic
- 10.40-10.45 Sándor RÓZSA, Tincuța GOCAN, Claudiu BUNEA, Daniela POȘTA, Ioana MOLDOVAN, Anamaria CĂLUGĂR, Lehel LUKÁCS, Orsolya BORSAL: Comparative study regarding the quality of different origins of strawberry fruits
- 10.45-10.50 Tincuța GOCAN, Gheorghe POȘTA, Sándor RÓZSA, Ileana ANDREICA, Daniela POȘTA, Iuliana MOTRESCU, Ioana CIOBANU: The impact of basil fertilization on oil yield
- 10.50-10.55 Tincuța GOCAN, Sándor RÓZSA, Ileana ANDREICA, Claudiu BUNEA, Cristina BABEȘ, Anamaria CĂLUGĂR, Lehel LUKÁCS, Orsolya BORSAL: The influence of antioxidant treatment on the quality of fruit juices
- 10.55-11.00 Anamaria CĂLUGĂR, Sándor RÓZSA, Claudiu BUNEA1, Cristina BABEȘ, Lehel LUKÁCS, Nadina SAV, Tincuța GOCAN, Ileana ANDREICA: Study on obtaining sweetness from some aromatic varieties of grapes - Muscat Ottonel and Muscat of Hamburg
- 11.00-11.05 Emilia MOISESCU, Oana BOIU SICUIA: Figs – raw material for quality pickles
- 11.05-11.10 Aurica BOROZAN, Despina BORDEAN, Corina MISCA, Veta BELU-BOROZAN, Sorina POPESCU, Camelia MOLDOVAN, Delia DUMBRAVA, Mihaela LĂCĂTUȘ: *Laurus nobilis* L. – phytochemical profile, bioactivity and less known or unexplored aspects



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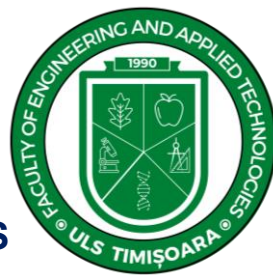


- 11.10-11.15 Aurica BOROZAN, Sorina POPESCU, Alina DOBREI, Diana MOIGRADEAN, Mariana POIANA, Alin DOBREI, Mirela POPA, Diana RABA, Despina BORDEAN: Bioactive compound content and biological activity of blueberry leaves and fruits
- 11.15-11.20 Călin BACIU, Daniel BOTIȘ, Radu ȘUMĂLAN: Remote sensing evaluation of fire blight on quince using sentinel 2 applications
- 11.20-11.25 Sándor RÓZSA, Claudiu BUNEA, Cristina BABEȘ, Florin BORA, Tincuța GOCAN, Anamaria CĂLUGĂR, Lehel LUKÁCS: Influence of antioxidant treatment on the quality of stewed fruits made from grapes
- 11.25-11.30 Oliver MERCE, Ilie CÂNTAR, Daniel TURCU, Cătălin CIONTU, Ciprian VASILE, Nicolae CADAR: Comparative analysis of dead wood in managed and virgin forests in the beech stands
- 11.30-11.35 Andreea MELINESCU: Approaching the design of apartment block gardens: benefits for mental and physical health and ecological impact
- 11.35-11.40 Orsolya BORSAL, Attila KESERŰ, Tincuța GOCAN, Lehel LUKÁCS, Daniela POȘTA, Ionuț DASCĂLU: Phenological growth stages of 'Kanzi' apple cultivar according to the extended BBCH scale
- 11.40-11.45 Adina MARIȘ, Sorin CIULCA: Analysis of fruit size variability in rosehip (*Rosa canina* L.) populations from Arad County
- 11.45-11.50 Adina MARIȘ, Sorin CIULCA: Assessment of pomological diversity between rosehip (*Rosa canina* L.) populations from Arad County
- 11.50-12.00 Coffee break



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• 12.00-12.05 Adriana CIULCA, Giancarla Velicevici, Dorin CAMEN, Teodor CRISTEA, Sorin CIULCA: Screening for drought tolerance of common bean using several selection indices

• 12.05-12.10 Alin DOBREI, Florin SALA, Eleonora NISTOR, Mirela RUJOIU, Mihaela MALAESCU, Alina DOBREI: The interdependence of biological and technological indicators in several local grapevine varieties

• 12.10-12.15 Alin DOBREI, Florin SALA, Eleonora NISTOR, Daniela DOBROMIR, George CONSTANTINESCU, Alina Georgeta DOBREI: The influence of technological sequences in conventional and organic viticulture on some parameters

• 12.15-12.20 Cosmin MARIȘ, Mihai FEDORCA: Assessment of the actual jackal population (*Canis aureus*) using modern methods in the hunting ground 41 Cralovat, managed by USVT

• 12.20-12.25 Cosmin MARIȘ, Mihai FEDORCA: Spring migration of the Eurasian Woodcock (*Scolopax rusticola*) in 41 Cralovat hunting area, comparative results from 2017 and 2025

• 12.25-12.30 Georgeta BLAJ, Cornelia BUZATU-GOANȚĂ: Low-productivity forests in Working Unit III Jitin

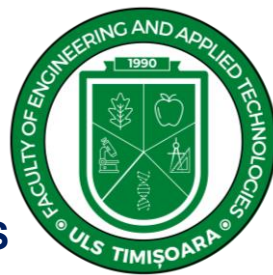
• 12.30-12.35 Dora ORBOI, Adrian BĂNEȘ, Olimpia IORDĂNESCU, Ionuț DASCĂLU, Alexandra BECHERESCU: Evolution of Romanian horticultural production in the period 2013-2023

• 12.35-12.40 Alexandru COLIȘAR, Vasile CEUCA, Vasile SIMONCA, Steluța SÎNGEORZAN, Ionut BREBEN: Viability of some forest species' associations established on degraded lands, in the context of climate change



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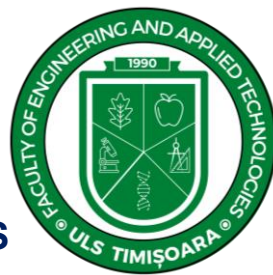


- 12.40-12.45 Simion ALDA, Liana ALDA, Despina BORDEAN, Claudia SIRBULESCU, Laura RĂDULESCU, Marcel DANCI, Teodor CRISTEA, Dumitru SPĂTARIUC: Study on the mineral content of mushrooms
- 12.45-12.50 Călin BACIU, Daniel BOTIȘ, Radu ȘUMĂLAN: Remote sensing evaluation of fire blight on quince using Sentinel 2 Applications
- 12.50-12.55 Cristian MATE, Alina SIMINA, Cerasela PETOLESCU, Sorina POPESCU, Alina ȚENCHE-CONSTANTINESCU, Cristina TOȚA, Emilian ONIȘAN, Ioan SĂRAC: Callus induction and maintenance in sunflower: assessment for genotype conservation
- 12.55-13.00 Emilian ONIȘAN, Cristian MATE, Alina SIMINA, Irina PETRESCU, Cerasela PETOLESCU, Cristina TOȚA, Ioan SĂRAC: Cadmium's effects on germination and growth in *Dianthus deltoides*: an in vitro culture approach
- 13.00-13.05 Giancarla VELICEVICI, Adriana CIULCA, Sorin CIULCA, Dorin CAMEN, Ilinca IMBREA, Mihalea MĂLĂESCU, Iuliana CREȚESCU: The effect of drought stress on physiological responses of maize plants
- 13.05-13.10 Cerasela PETOLESCU, Alina SIMINA, Ioan SĂRAC, Emilian ONISAN, Andreea NISTOR, Cristian MATE: In vitro propagation and assessment of genetic stability in begonia using RAPD molecular markers
- 13.10-13.15 Steluța-Maria SÎNGEORZAN, Ilie COVRIG, Mădălina COVRIG, Alexandru COLIȘAR, Vasile CEUCA, Horia Dan VLASIN: Felling techniques and recommended harvesting technologies in thinning operations
- 13.15-13.20 Corina GAVAT, Silvia NICOLAE, Gheorghe LĂMUREANU, Liliana MIRON: Assessment of the phenotypic diversity of *Prunus cerasifera* in natural and anthropized ecosystems



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- 13.20-13.25 Gheorghe LĂMUREANU: The effect of thinning on peach in south-east Romania
- 13.25-13.40 Steluta-Maria SÎNGEORZAN, Ilie COVRIG, Alexandru COLIȘAR, Petre Alexandru PANICI, Vasile CEUCA Horia-Dan VLASIN, Vasile ȘIMONCA, Orsolya BORSAL: Electric and magnetic field effects on spruce seed germination and seedling growth
- 13.40-13.45 Mihaela IORDĂCHESCU, Liliana BĂDULESCU: Genetic drift in vegetatively propagated fruit crops: how, why and what to do about it?
- 13.45-13.50 Ion TRUȘCĂ, Raluca POPESCU Sergiu GORJAN: Determination of the food need of the vine and the balancing of macromolecular substances and the influence of some factors on the absorption of macromolecular elements in the production of grafting ropes
- 13.50-14.00 Coffee break
- 14.00-14.05 Ana BUTCARU, Doru DUMITRAȘCU, Cosmin MIHAI, Florin STĂNICĂ: A digital system to evaluate the canopy projection in some cherry, apricot, and nectarine cultivars
- 14.05-14.10 Ion TRUȘCĂ, Sergiu GORJAN, Raluca POPESCU: Dynamics of carbohydrates in woody elements of the vine
- 14.10-14.15 Gheorghe POȘTA, Tincuța GOCAN, Marius BALINT, Iuliana MOTRESCU, Lehel LUKÁCS, Sándor RÓZSA: Evaluation of fruit quality elements in tomato cultivation in the field, in conventional system
- 14.15-14.20 Ciprian MIHALI, Elena ILIE, Radu NEAMȚ, Alexandru MIZERANSCHI, Neculai DRAGOMIR, Monica TOD: The influence of abiotic factors on plants in pastoral flora by RNA analysis



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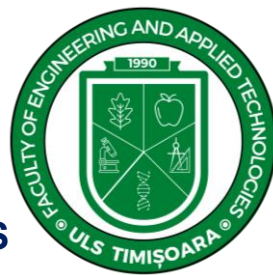


- 14.20-14.25 Claudia SZILAGYI, Cristina TOȚA, Ionuț DASCĂLU, Olimpia IORDĂNESCU: Influence of temperature and preservatives on *Liatris spicata* cut flowers
- 14.25-14.30 Alexandru PANICI, Dorin CAMEN: Ecophysiology of forest species in south-west Romania in the context of climate change
- 14.30-14.35 Petru DRAGOMIR, Cristian MARINAȘ, Mihaela MOATĂR, Carolina ȘTEFAN, Petre Alexandru PANICI: Study on the evolution of the main predator species in Timiș County, during the period 2009-2023
- 14.35-14.40 Iulia SEMENESCU, Ștefana AVRAM, Larisa BORA, Szilvia BERKO, Daliana MINDA, Corina DANCIU: Antioxidant properties of *Glycyrrhiza glabra* L. hydrogels containing 2% methanolic extract
- 14.40-14.45 Ioana MAGYARI-PAVEL, Ștefana AVRAM, Iulia SEMENESCU, Ionela MINDA, Larisa BORA, Corina DANCIU: *In Vitro* and *In Ovo* evaluation of a Maslinic Acid Nanoemulsion on Melanoma
- 14.45-14.50 Alexandru PANICI, Marinela BORA, Cristina PANICI, Steluța SÎNGEORZAN, Dorin CAMEN: Comparative study on soil characteristics in south-west Romania in the context of climate change
- 14.50-14.55 George CONSTANTINESCU, Alina DOBREI, Eleonora NISTOR, Dorin DUȘA, Mirela HEIZER, Robert HEIZER, Alin DOBREI: Studies on the planting dynamics of native grape varieties for winemaking
- 14.55-15.00 Alina DOBREI, Eleonora NISTOR, Dragoș CONSTANTINESCU, Florin SALA, Daniela DOBROMIR, Cristina CRISTEA, Alin DOBREI: The evolution of the wine market in the main supermarkets from Timișoara



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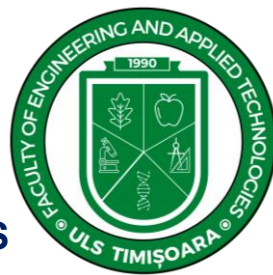


- 15.00-15.05 Daniela POȘTA, Marius SILIVĂȘAN, Mihaela MĂLĂESCU, Veronica SĂRĂȚEANU, Roberto BERNARDIS: Production of *Acer saccharinum* L. seedlings using different substrates
- 15.05-15.10 Daniela POȘTA, Marius SILIVĂȘAN, Tincuța GOCAN, Orsolya BORSAL, Sandor RÓZSA: Influence of germination stimulation methods on the emergence of *Acer palmatum* 'Atropurpureum' seedlings using different substrates
- 15.10-15.15 Mihaela MOATĂR, Petru DRAGOMIR, Carolina ȘTEFAN, Daniela SCEDEI, Alexandru PANICI, Cristina PANICI: Study regarding implementation of torrents' correction in the basin of production unit no. II Valea Nerei, Bozovici Forest District
- 15.15-15.20 Mihaela MOATĂR, Petru DRAGOMIR, Carolina ȘTEFAN, Daniela SCEDEI, Alexandru PANICI, Cristina PANICI: Study regarding implementation of torrents' correction in the basin of production unit no. IX Slatina-Timiș, Teregova Forest District
- 15.20-15.25 Irina MORAR, Iulia ARION; Petru TRUȚA, Alina TRUȚA: Phenotypic variability of *Picea abies* characteristics in UP II Bistra
- 15.25-15.30 Luisa ANDRONIE, Ioana POP, Florica MATEI, Rodica SOBOLU, Iulia COROIAN, Stefania ANDRONIE, Ancuța ROTARU: Applications of FT-IR spectroscopy in the characterization of the main components of bitter cucumber (*Momordica charantia*)
- 15.30-15.35 Rodica SOBOLU, Luisa ANDRONIE, Ioana POP, Florica MATEI, Iulia COROIAN, Stefania ANDRONIE: FT-IR analysis of key biochemical components in *Cantharellus cibarius*
- 15.35-15.40 Ion BRATU, Madalina VULPE, Cristinel TUDOR RADU: The influence of plant extracts and macerates on the health status of some tomato varieties grown in an organic system



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- 15.40-15.45 Marcel DANCI, Simion ALDA, Teodor CRISTEA, Ioan DAVID, Madalina VULPE, Felicia PETCU, Liana ALDA, Alexandra BECHERESCU: The influence of hormonal balance in the multiplication of two varieties of *Hylocereus undatus*
- 15.45-15.50 Noémi VALKOVSZKI, Tímea SZALÓKI, Árpád SZÉKELY, Ágnes KUN, Ildikó KOLOZSVÁRI, Szilvia TAVASZI-SÁROSI, Mihály JANCÓSÓ: Influence of drought stress on plant and yield of annual caraway (*Carum carvi* var. *annuum* L.)
- 15.50 Closing the conference section