

THE MINISTRY OF EDUCATION
"AUREL VLAICU" UNIVERSITY OF ARAD
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**INTERNATIONAL SYMPOSIUM
RESEARCH AND EDUCATION IN
INNOVATION ERA**

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ESCORENA *European System of Cooperative Research Networks in Agriculture*



CHEMISTRY AND APPLICATION FIELDS

THURSDAY, November 06, 2014

15.00-16.00 Room S27 - PLENARY SESSION

Chair: CS I Cecilia SÎRGHIE, PhD

Prof. Carmen G. BOERIU, PhD

15.00-15.20 **BIOCATALYTIC ROUTES FOR HIGH VALUE CHEMICALS FROM RENEWABLE RESOURCES**
PL 1

Carmen G. BOERIU

Wageningen UR Food and Biobased Research, Subdivision Biobased Products, Wageningen, The Netherlands

15.20-15.40 **CHARACTERISATION OF FOLATE-BASED NANOPARTICLES**

PL 2 Florentina-Daniela MUNTEANU^{1,2} Artur CAVACO-PAULO³

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15.40-16.00 **VOLATILE ORGANIC COMPOUNDS EMITTED BY PLANTS DETERMINATION USING NEW GAS CHROMATOGRAPHY MASS-SPECTROMETRY METHODS**
PL 3

Lucian COPOLOVICI^{1,2}, Astrid KÄNNASTE³, Andreea PAG¹, Daniel TOMESCU¹, Adina BODESCU^{1,2}, Ülo NIINEMETS³

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16.00-16.15 **Coffee break**

16.15-17.45 Room S27 - ORAL PRESENTATIONS

Chair: Prof. Florentina-Daniela MUNTEANU, PhD

Prof. Alina Diana ZAMFIR, PhD

**16.15-16.30 SPECTRAL CHARACTERIZATION AND DETERMINATION OF TOTAL
OP 1 ANTIOXIDANT CAPACITY OF BURDOCK EXTRACTS USING
CHEMILUMINESCENCE TECHNIQUE**

Anca Mihaela DICU, Simona PERTA CRISAN

Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University, 2 Elena Dragoi St., 310330, Arad, Romania

**16.30-16.45 EVALUATION OF HEMP SHIVES USAGE FOR BIOREMEDIATION OF
OP 2 SALINITY SOILS**

Cecilia SÎRGHIE^{1,2}, Florin CRIȘAN¹, Lucian COPOLOVICI^{1,2}

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**16.45-17.00 VOLATILE ORGANIC COMPOUND EMISSIONS FROM
OP 3 PEDUNCULATE OAK UNDER ABIOTIC AND BIOTIC STRESS**

Andreea Ioana PAG¹, Daniel TOMESCU¹, Astrid KÄNNASTE², Adina BODESCU^{1,3},
Ülo NIINEMETS², Lucian COPOLOVICI^{1,3}

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17.30-17.45 ATOMIC FORCE MICROCOPY

OP 4 Dana M. COPOLOVICI^{1,2}, Cecilia SÎRGHIE^{1,2}

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POSTER SESSION: 17.45-18.15

- P 1 ANALYSING THE USAGE DEGREE OF ECO-LABELED LOCAL DETERGENTS**
Eugenia TIGAN, Monica LUNGU
Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University, 2 Elena Dragoi St., 310330, Arad, Romania
- P 2 THE YELLOW WATERMELON WITH HORNS (*CUCUMIS METULIFERUS*) – FOOD AND THERAPEUTIC SPECIES WITH ADAPTATION POSSIBILITIES IN ARAD AGROECOLOGICAL AREA**
Lucian HĂLMĂGEAN, Mihaela MESTER, Monica ZDREMȚAN, Maria BALINT, Daniela DIACONESCU, Virgil CIUTINA
Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University, 2 Elena Dragoi St., 310330, Arad, Romania
- P 3 RESEARCHES CONCERNING EXTRACTION AND DOSAGE TECHNOLOGY OF PYRIDOXAMINE AND THIAMINE BY USING SOME GARDEN SOME PLANTS OF THE *FABACEAE* FAMILY**
Sergiu PALCU, Virgil CIUTINA, Sabin CHIS
Faculty of Food Engineering, Tourism and Environmental Protection, "Aurel Vlaicu" University, 2 Elena Dragoi St., 310330, Arad, Romania
- P 4 CHANGES IN PHYSICAL PROPERTIES OF SOME FRUITS AFTER VACUUM IMPREGNATION TREATMENT**
Anca DICU¹, Ioan CALINOVICI¹, Amelia RUS², Claudiu URSACHI¹
¹*Department of Natural Sciences and Technology. University „Aurel Vlaicu” Arad, Romania.*
² *S.C. Lazăr & Sohne S.R.L., Romania*
- P 5 NANO-ELECTROSPRAY QUADRUPOLE TIME-OF-FLIGHT TANDEM MASS SPECTROMETRIC ANALYSIS OF LONG CHAIN POLYSACCHARIDES**
Mirela SARBU,¹ Roxana M. GHIULAI² and Alina D. ZAMFIR¹
¹*"Aurel Vlaicu" University, 2 Elena Dragoi St., 310330, Arad, Romania*
²*"Victor Babes" University of Medicine and Pharmacy, Timisoara, Romania*
- P 6 FULLY AUTOMATED CHIP-BASED NANO-ELECTROSPRAY MASS SPECTROMETRY OF FRUCTOOLIGOSACCHARIDES SYNTHESIZED BY LSCA FROM SUCROSE**
Cristina MOSOARCA,¹ Triinu VISNAPUU,² Tiina ALAMAE,² Adrian CHIRIAC¹ and Alina D. ZAMFIR³
¹*"Aurel Vlaicu" University, 2 Elena Dragoi St., 310330, Arad, Romania*
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- P 7 STUDY OF L-GLUTAMIC ACID INFLUENCE ON THE THERMAL BEHAVIOR OF NATIVE WHEAT STARCH**

Iolanda TOLAN¹, Dorina-Rodica CHAMBRÉ²

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² Research Development Innovation in Natural and Technical Sciences Institute of “Aurel Vlaicu” University. Arad, Elena Drăgoi 2, Arad 310330, Romania

P 8 **THE INFLUENCE OF TEMPERATURE STRESS ON THE EMISSION OF BIOGENIC VOLATILE ORGANIC COMPOUNDS AND PHOTOSYNTHETIC PARAMETERS OF *QUERCUS ROBUR* TREES**

Adina BODESCU^{1,2}, Astrid KANNASTE³, Andreea PAG¹, Ülo NIINEMETS³ and Lucian COPOLOVICI^{1,2}

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P 9 **VOLATILE ORGANIC COMPOUND EMISSIONS FROM OAK UNDER DROUGHT STRESS**

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P 10 **THE EVOLUTION OF PHENOLIC COMPOUNDS DURING TECHNOLOGICAL PROCESS AT SUPERIOR RED WINES FROM MINIS VINEYARD**

Claudia MURESAN, Virgil CIUTINA, Sergiu PALCU, Claudiu URSACHI

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P 11 **PRELIMINARY STUDIES TO ATTEST THE ABILITY OF BOTRYTIS ACLADA FUNG TO PRODUCE LACCASES**

Simona GAVRILAS¹, Kitti MUEANGTOOM², Michaela Dina STANESCU³

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