



**INTERNATIONAL SYMPOSIUM  
RESEARCH AND EDUCATION IN  
INNOVATION ERA**

6th Edition

**CHEMISTRY AND APPLICATION FIELDS**

**PROGRAM**

December 08-10, 2016

Arad



## CHEMISTRY AND APPLICATION FIELDS

**FRIDAY, December 09, 2016**

Elena Dragoi St., Nr. 2, Arad, Room S27

**14.30-15.30 Room S27 - PLENARY SESSION**

**Chair: Prof. Florentina MUNTEANU, PhD.**

**Prof. Lucian COPOLOVICI, PhD. Hab.**

14.30-14.50 **RECENT TRENDS ON FABRICATION OF SOFT PARTICLES**

PL 1 Artur M. CAVACO-PAULO

*Centre of Biological Engineering, University of Minho, Campus of Gualtar, Braga, Portugal.*

14.50-15.10 **DIFFERENT APPROACHES AND NANO-DESIGN CONSIDERATION  
IN SYNTHESIS OF NANOPARTICLES FOR MEDICAL AND  
PHARMACEUTICAL APPLICATIONS**

PL 2 Simona CAVALU, Simona VICAS, Paula PASCA, Vasile LASLO

*University of Oradea, Faculty of Medicine and Pharmacy, Oradea, Romania.*

15.10-15.30 **NEW DIRECTION OF THE HUNGARIAN LIVESTOCK SECTOR: THE  
DAIRY BUFFALOES**

PL 3 Karoly BODNAR, Laszlo MAKRA, Erika Skobrak BODNAR

*University of Szeged, Faculty of Agriculture, Hungary.*

**15.30-16.00 Coffee break and Poster session (I)**

**16.00-18.00 Room S27 - ORAL PRESENTATIONS**

**Chair: Prof. Artur M. CAVACO-PAULO, PhD**

**Prof. Karoly BODNAR, PhD.**

16.00-16.15 **LUMINESCENT LIQUID CRYSTALS BASED ON TRANSITION  
OP 1 METAL COMPLEXES**

Elisabeta I. SZERB, Liliana CSEH, Carmen CRETU and Otilia COSTISOR  
*Institute of Chemistry Timisoara of Romanian Academy, Timisoara, Romania.*

16.15-16.30 **TRANS-RESVERATROL CONTENT IN GRAPE CANE AND ROOT  
OP 2 OF DIFFERENT SCION-ROOTSTOCK COMBINATIONS**

Gyöngyi NÉMETH<sup>1</sup>, Diána Nyitrai<sup>2</sup>, Miklós KÁLLAY<sup>2</sup>, László  
KOCSIS<sup>1</sup>

<sup>1</sup>*University of Pannonia, Georgikon Faculty, Department of Horticulture,  
Hungary*

<sup>2</sup>*Szent Istvan University, Faculty of Food Science, Department of Oenology,  
Budapest, Hungary.*

16.30-16.45 **RESEARCHER CONCERNING STOPPING THE EXTINCTION OF  
OP 3 INVASIVE SPECIES OF PLANTS FROM MUREŞ FLOODPLAIN  
NATURAL PARK**

MUNTEANU Florentina,\* CALINOVICI I.,\* CIUTINA V.,\* LUNGU  
Monica\*, BRINZAN Oana,\*\* HAC P.\*\*\*

*\*"Aurel Vlaicu" University of Arad, Romania, \*\*Development Centre Arad,  
Arad, Romania, \*\*\*Mureş Foodplain Natural Park.*

16.45-17.00 **NEW INSIGHTS INTO VOLATILE ORGANIC COMPOUNDS  
OP 4 EMISSIONS AND CLIMATE CHANGE**

Lucian COPOLOVICI<sup>1</sup>, Ülo NIINEMETS<sup>2</sup>

<sup>1</sup>*Research Center for Natural and Technical Sciences – ICDISTN, Faculty of Food Engineering, Tourism and Environmental Protection, “Aurel Vlaicu” University, Romania,*

<sup>2</sup>*Institute of Agricultural and Environmental Sciences, Estonian University of Life Sciences, Tartu, Estonia.*

17.00-17.15 **SAVING RESOURCES THROUGH CIRCULAR ECONOMY.**  
OP 5 **WASTE RECYCLING IN ROMANIA AND IN WEST REGION OF ROMANIA**

Oana BRÎNZAN, Eugenia ȚIGAN  
*University “Aurel Vlaicu” of Arad, Arad, Romania*

17.15-17.30 **EMBEDDED SENSOR ENABLED BY PHOTONIC CRYSTALS**  
OP 6 Roxana-Mariana BEIU

*University “Aurel Vlaicu” of Arad, Arad, Romania.*

17.30-17.45 **A NEW FUNCTIONAL FOOD FOR WEIGHT MANAGEMENT**  
OP 7 Dana RADU

*“Aurel Vlaicu” University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Department of Technical and Natural Sciences, Romania.*

17.45-18.00 **CHROMATOGRAPHIC ANALYSIS OF SOME FOOD PRODUCTS**  
OP 8 Denissa A. POP, Alina BAN, Lucian COPOLOVICI<sup>1</sup>, Dana COPOLOVICI<sup>1\*</sup>  
*Faculty of Food Engineering, Tourism and Environmental Protection, and Institute of Research, Development, Innovation in Technical and Natural Sciences, “Aurel Vlaicu” University, Arad, Romania.*

**POSTER SESSION: 18.00-18.20 (II)**

- P 1 Introducing ion mobility mass spectrometry in brain ganglioside research**  
Mirela SARBU<sup>1</sup>, Roxana M. GHIULAI<sup>1,2</sup>, David E. CLEMMER<sup>3</sup>, Alina D. ZAMFIR<sup>1</sup>  
*<sup>1</sup>Aurel Vlaicu University of Arad, Romania; <sup>2</sup>Faculty of Pharmacy, Victor Babes University of Medicine and Pharmacy, Timisoara, Romania; <sup>3</sup>Department of Chemistry, Indiana University, Bloomington, USA.*
- P 2 THE INFLUENCE OF DROUGHT ON TIMIS COUNTY FOREST**  
Adina BODESCU, Daniel TOMESCU, Andreea PAG, Lucian COPOLOVICI  
*Research Center for Natural and Technical Sciences – ICDISTN, Faculty of Food Engineering, Tourism and Environmental Protection, “Aurel Vlaicu” University, Romania, 2 Elena Dragoi St., 310330, Arad, Romania.*
- P 3 THERMOCHEMICAL DATA OBTAINED BY QUANTUM CHEMICAL CALCULATION FOR IDENTIFICATION BY DIFFERENTIAL MASS SPECTROMETRY OF SOME BIOLOGICALLY ACTIVE COMPOUNDS FROM LAVENDER OIL**  
Lucian COPOLOVICI, Dumitru CONDRAT, Nicolae DINCA  
*“Aurel Vlaicu” University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Arad, Romania.*
- P 4 STUDY REGARDING THE INFLUENCE OF WATER ON PRESERVATION OF COURGETTES BY LACTIC FERMENTATION**  
Monica ZDREMȚAN, Daniela DIACONESCU, Mihaela MEȘTER, Virgil CIUTINĂ, Lucian HĂLMĂGEAN, Monica LUNGU  
*Universitatea „Aurel Vlaicu” din Arad, Facultatea de Inginerie Alimentară, Turism și Protecția Mediului, Arad, Romania*

**P 5      QUALITY IMPROVING      OF WHOLE WHEAT BREAD BY USING  
XYLANASE**

Daniela DIACONESCU, Monica ZDREMȚAN, Mihaela MEȘTER, Lucian HĂLMĂGEAN, Dumitru CONDRAT

*Universitatea „Aurel Vlaicu” din Arad, Facultatea de Inginerie Alimentară, Turism și Protecția Mediului, Arad, Romania*

**P 6      NON-ISOTHERMAL DECOMPOSITION KINETICS OF OXO-DIPEROXO-  
MOLYBDENUM(VI)- POTASSIUM OXALATE**

Dorina CHAMBRE<sup>1</sup>, Adina-Maria BODESCU<sup>1</sup>, Cecilia SIRGHIE<sup>1</sup>, Iolanda TOLAN<sup>1</sup>,  
Petru BUDRUGEAC<sup>2</sup>

<sup>1</sup>*I.C.D.I.S.T.N, “Aurel Vlaicu” University. Arad, Elena Drăgoi 2, Arad, 310330,  
Romania*

<sup>2</sup>*ICPE-CA, Splaiul Unirii 313, Bucuresti, 030138, România*

**P 7      THE STUDY OF THE ANTIOXIDANT ADDITION INFLUENCE ON FATS  
THERMO-OXIDATIVE STABILITY BY USING TG/DTG/DTA DATA**

Dorina Chambre, Iolanda Tolan, Adriana Gabriela Onofrei

*“Aurel Vlaicu” University of Arad, F.I.A.T.P.M., Elena Drăgoi str. no.2, Arad, 310330,  
RO*

**P 8      EXPERIMENTAL RESEARCH ON THE CONTENT OF THIAMINE,  
RIBOFLAVIN AND PYRIDOXINE OF THE FAMILY PAPILIONACEAE  
PLANTS UNDER THE INFLUENCE OF FERTILIZER WITH  
MICROELEMENTS**

Sergiu Erich PALCU, Claudia MUREȘAN

*University “Aurel Vlaicu” of Arad, Faculty of Food Engineering, Tourism and  
Environmental Protection, Arad, Romania*

**P 9      CASE STUDY ON THE EATING BEHAVIOR OF STUDENTS**

Ionel POPESCU-MITROI

*“Aurel Vlaicu” University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Department of Technical and Natural Sciences, Arad, Romania.*

**P 10 Analysis of anthocyanidins in *Crataegus monogyna* and *Rosa canina* ethanolic extracts**

Dumitru CONDRAT<sup>1,\*</sup>, Dana COPOLOVICI<sup>1</sup>, Lucian COPOLOVICI<sup>1</sup>

<sup>1</sup>*Faculty of Food Engineering, Tourism and Environmental Protection, „Aurel Vlaicu” University, Arad, România*

**P 11 CURRENT STATE REGARDING THE FAT FOOD FORTIFICATION WITH SPICE HERBS EXTRACTS**

Simona GAVRILAȘ

*“Aurel Vlaicu” University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Arad, Romania*

**P 12 CALCIUM SPECTROPHOTOMETRIC DETERMINATION FROM FLAX-COTTON FABRICS AFTER BIOSCOURING TREATMENT**

Simona GAVRILAȘ<sup>b</sup>, Ana-Mihaela DOCHIA<sup>a</sup>, Monica PUSTIANU<sup>c</sup>, Daniel TOMESCU<sup>a</sup>

<sup>a</sup>*Research Development Innovation in Natural and Technical Sciences Institute of “Aurel Vlaicu” University, Arad, Romania*

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<sup>c</sup>*“Aurel Vlaicu” University of Arad, Faculty of Engineering, Arad, Romania*

**P 13 NUTRITIONAL EVALUATION OF THE STUDENT MENUS SERVED AT THE „AUREL VLAICU” UNIVERSITY CANTEEN**

Anca DICU, Claudia MUREȘAN, Simona PERȚA-CRIȘAN, Claudiu URSACHI

*„Aurel Vlaicu” University of Arad, Faculty of Food Engineering, Tourism and Environmental Protection, Arad, Romania*

P14 **Determination of atmospheric pollutants in Arad city**

Dennis N. IOSIF,<sup>1</sup> Lucian COPOLOVICI<sup>1</sup>, Dana COPOLOVICI<sup>1\*</sup>

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