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# NATIONAL SOCIETY OF PROCESSING AND ENERGY IN AGRICULTURE

UNIVERSITY OF NOVI SAD **FACULY OF AGRICULTURE** DEPARTMENT OF AGRICULTURE ENGINEERING





FOURTH INTERNATIONAL CONFERENCE SUSTENABLE POSTHARVEST AND **FOOD TECHNOLOGIES** 

# **INOPTEP 2015**

and XXVII NATIONAL CONFERENCE PROCESSING AND ENERGY IN AGRICULTURE

- PROGRAM -

**PTEP 2015** 

**EXPERT CONFERENCE** FOR DRYING, STORAGE AND PROCESSING OF AGRICULTURAL PRODUCTS, FOOD **TECHNOLOGY AND ENERGY IN AGRICULTURE** 



19.04 - 24.04.2015. **DIVČIBARE. HOTEL " DIVČIBARE "** 

	PROGRAM OF CONFERENCE
17 <sup>00</sup> -19 <sup>00</sup>	Sunday, 19.04.2015.  Pagistration of the conference participants. Receiving of materials
	Registration of the conference participants. Receiving of materials. Setting up of posters.
19 <sup>00</sup> -19 <sup>30</sup>	The Organizing Committee meeting
09 <sup>00</sup> -10 <sup>00</sup>	Monday, 20.04.2015.
10 <sup>00</sup> -12 <sup>20</sup>	Conference opening and "Welcome Cocktail".  Blok A – The plenary part
	Invited Papers (Serbian←→English,translation during presentation) Chairpersons: Milica Radosavljević, Zsuzsanna Füstös, Dorota Kreqiel
10 <sup>00</sup> -10 <sup>20</sup>	Józef Horabik: MODELING OF PROPERTIES OF AGROMATERIALS
10 <sup>20</sup> -10 <sup>40</sup>	BY DISCRETE ELEMENT METHOD Ingrid Bauman: POWDERED MATERIALS AND THEIR ROLE IN NEW TECHNOLOGIES
10 <sup>40</sup> -11 <sup>00</sup>	Zsuzsanna Füstös: POSSIBILITY AND LEGISLATION BACKROUND OF PROTECTION, REGISTRATION AND MARKETING OF VEGETA-
11 <sup>00</sup> -11 <sup>20</sup>	BLE CONSERVATION VARIETIES IN EUROPEAN UNION Pause
1120_1140 _	Chairpersons: Józef Horabik, Ingrid Bauman, Jasna Mastilović Dorota Kregiel, Hubert Antolak: EVALUATION OF THE VOLUMETRIC
	"BOTTLE EFFECT" ON ASAIA SSP. GROWTH IN FLAVORED MINER- AL WATER
11 <sup>40</sup> 12 <sup>00</sup>	Cosmin Salasan: COMPLEMENTARITY OF SHORT FOOD SUPPLY CHAINS AND TRADITIONAL PRODUCTS
12 <sup>00</sup> -12 <sup>20</sup>	Jasna Mastilović, Žarko Kevrešan, Aleksandra Torbica, Miona Belović, Dragan Živančev, Jelena Tomić, Elizabet Janić Hajnal,
	Miroslav Hadnađev, Milica Pojić, Tamara Dapčević Hadnađev: MILLETS – CHALLENGES OF UNEXPLOITED RAW MATERIALS IN
12 <sup>20</sup> -13 <sup>10</sup>	BREAD PRODUCTION Poster section - viewing and discussion with authors
15 <sup>00</sup> -16 <sup>10</sup> -	Blok B - PRESENTATION IN ENGLISH
15 <sup>00</sup> -15 <sup>10</sup>	Chairpersons: Maša Bukurov, Jelena Pejin, Ivan Pavkov Bojana Šarić, Anamarija Mandić, Sonja Đilas, Aleksandra Mišan, Nataša Nedeljković, Jovana Kos, Ljubiša Šarić: BLUEBERRY PROCESSING WASTE AS A SOURCE OF VALUABLE BIOACTIVE COMPOUNDS
15 <sup>10</sup> -15 <sup>20</sup>	Dobrivoj Poštić, Nebojša Momirović, Zoran Broćić, Lana Đukanović, Ratibor Štrbanović, Rade Stanisavljević, Dragan Terzić: EFFECT OF IRRIGATION ON YIELD AND QUALITY TUBERS OF DIFFERENT VARIETIES OF POTATO
15 <sup>20</sup> -15 <sup>30</sup>	Dubravka Jambrec, Olivera Šimurina, Mladenka Pestorić, Nataša Nedeliković, Marijana Sakač, Bojana Šarić, Anamarija Mandić:
15 <sup>30</sup> -15 <sup>40</sup>	TEXTURAL PROPERTIES OF DRY TAGLIATELLE Ivan Milovanović, Dajana Kovač, Pavle Jovanov, Anamarija Mandić, Jasmina Gubić: THE ROLE OF NITROGEN IN PRODUCTION OF ANABAENA SPP. BIOMASS
15 <sup>40</sup> -15 <sup>50</sup>	Jelena Pejin, Milos Radosavijevic, Ljiljana Mojovic, Suncica Kocic-
	Tanackov, Aleksandra Đukić-Vuković: THE INFLUENCE OF BREWERS' YEAST ADDITION ON LACTIC ACID FERMENTATION OF BREWERS' SPENT GRAIN HYDROLYSATE BY LACTOBACILLUS RHAMNOSUS -
15 <sup>50</sup> -16 <sup>00</sup>	Invited Paper Magdalena Modelska, Michał Binczarski, Piotr Dziugan, Stanisław
	Karski, Izabela Witońska: WASTE BIOMASS FROM FOOD INDUSTRY AS A RAW MATERIAL IN FURFURAL PRODUCTION
16 <sup>00</sup> -16 <sup>10</sup>	Maja Malnar, Vesna Radojičić, Olivera Ećim Đurić: COMPARATIVE ANALYSIS OF LEAVES AND STALKS CHEMICAL COMPOSITION OF
	ANALYSIS OF LEAVES AND STALKS CHEMICAL COMPOSITION OF LARGE LEAF TOBACCO PRODUCED IN SERBIA
17 <sup>00</sup> -19 <sup>00</sup>	Workshop for technologists and managers of silo and seed
	Procedure beginning of the work dryer and establishment normal mode, Prof. Dr Mirko Babić
	<ul> <li>Technological description and management of seed corn dryers, dr Velimir Lončarević</li> </ul>
2000	- Seed treatment, Miladin Kostić, dipl. ing.

Pavkov: EFFECT OF TEMPERATURE ON THE RHEOLOGICAL

PROPERTIES OF PUREE MADE FROM DEHYDRATED-REHYDRATED PLUM VARIETY "STANLEY"

"Temet", "Brindza" and "Pusula"

Tuesday, 21.04.2015.

Wine party: Presentation of wineries: "Elenov", "Kovačević", "Rogan", 09<sup>00</sup>-12<sup>10</sup> - **Blok A -** Invited Papers (Serbian←→English, translation during Chairperson: Vlasta Vozárová, Mirko Babić, Ljiljana Mojović Maša Bukurov, Siniša Bikić, Miroslav Hadnađev, Milivoj Radojčin, Ivan

11<sup>00</sup>-11<sup>10</sup> 11<sup>50</sup>-12<sup>00</sup> 12<sup>10</sup>-12<sup>20</sup>

Marco Dalla Rosa: INNOVATION IN TRADITIONAL FOODS: A POSSI-BLE PARADIGM? Zuzana Hlaváčová, Ákos Kertész, Lenka Priatková, Tomáš Regrut, Michal Valach, L'ubomír Híreš: CONNECTION BETWEEN BIOLOGICAL MATERIAL DRYING CHARACTERISTICS AND ELECTRICAL PROP-Mirko Babić, Ljiljana Babić, Milivoj Radojčin, Ivan Pavkov, Zoran Stamenković: AIR VELOCITY DISTRIBUTION IN THE FLOW THROUGH THE GRAIN STORED LAYER Pause Chairpersons: Vlasta Vozárová, Mirko Babić, Marco Dalla Rosa Branka Levaj, Danijela Bursać Kovačević, Marina Marinčić, Verica Dragović-Uzelac: POLYPHENOLS AND ANTHOCYANINS OF GRAPE POMACE FROM CV. MERLOT Petkus Balkan, Zrenjanin, COMPANY PRESENTATION Marco Dalla Rosa, Peter Ho, Margarida Vieira, Katherine Flynn, Paola Pittia: NOVE VEŠTINE ZA NOVE POSLOVE: NEW SKILLS FOR NEW JOBS: AN INTENSE ACTIVITY IN THE FRAME OF THE ISEKI-FOOD4 PROJECT. Vlasta Vozárová, Monika Božiková, Ľubomír Híreš, Michal Valach, Ana Petrović, Ján Csillag: EFFECT OF THE TEMPERATURE ON VEGETA-

BLE OILS PHYSICAL PROPERTIES Pause 12<sup>00</sup>-12<sup>50</sup> - Blok B - PRESENTATION IN ENGLISH. Chairpersons: Aleksandra Dimitrijević, Ľubomír Kubík, Siniša Bikić L'ubomír Kubík: DETERMINATION OF MECHANICAL PROPERTIES OF

APPLE CULTIVAR GOLDEN DELICIOUS - Invited Paper Olivera Ećim Đurić, Mira Radovanović, Jelena Miočinović, Aleksandar Nedeljković, Predrag Puđa, Univerzitet u Beogradu: SIMULATION OF HEAT AND MASS TRANSFER IN THE MOIST AIR FLOW PRESENT IN THE INIȚIAL PHASE OF THE KAJMAK PRODUCTION PROCESS

Dušica Čolović, Radmilo Čolović, Jovanka Lević, Bojana Ikonić, Đuro Vukmirović, Vojislav Banjac, Ljiljana Kostadinović: POTROSNJA ENERGY CONSUMPTION OF SINGLE SCREW EXTRUDER IN PRO-DUCTION OF LINSEED BASED CO-EXTRUDATE - Invited Paper

Zdravko Šumić, Branimir Pavlić, Sonja Đilas, Aleksandra Tepić: MODEL-ING OF VACUUM DRYING KINETIC OF BLUEBERRIES Vladimir Bugarski, Perica Nikolić, Dragan Matić, Ilija Kamenko, Filip

Kulić: TRENDS IN MODERN SCADA SYSTEMS Lunch break

15<sup>00</sup>-16<sup>20</sup> - Blok B - PRESENTATION IN ENGLISH

Chairpersons: Aleksandra Đukić Vuković, Urszula Tylewicz, Vladimir Tomović

15<sup>00</sup>-15<sup>10</sup> Vladimir Filipović, Biliana Lončar, Milica Nićetin, Violeta Knežević, Ljubinko Lević, Univerzitet u Novom Sadu, Tehnološki fakultet, Novi Sad, Srbija: POSSIBILITY OF PORK MEAT OSMOTIC DEHYDRATION PROCESS CONTROL VIA OSMOTIC SOLUTION OSMOLALITY MEA-SUREMENT

Martin Malínek, Monika Božiková, Ana Petrović, Peter Hlaváč: EVALU-ATION OF OPERATIONAL ASPECTS OF PHOTOVOLTAIC SYSTEMS Michał Binczarski, Magdalena Modelska, Joanna Berłowska, Stanisław Karski, Izabela Witońska: THE METHOD OF PROPYLENE GLYCOL PRODUCTION FROM WASTE BIOMASS GENERATED IN THE SUG-AR FACTORY

Sandra Pedisić, Zoran Zorić, Zdenka Pelaić, Verica Dragović-Uzelac, WINE INDUSTRY BYPRODUCTS: POLYPHENOLS AND ANTIOXI-DANT ACTIVITY OF GRAPE SEED EXTRACTS

Željko Kanović, Milan Rackov, Milena Petković, Miroslav Vereš: GPSO ALGORITHM IN HCR GEARING GEOMETRY OPTIMIZATION

Zoran Zorić, Sandra Pedisić, Zdenka Pelaić, Danijela Bursać Kovačević, Verica Dragović - Uzelac: HYDROXYCINNAMIC ACIDS AND FLAVO-NOLS IN GRAPE SEED BYPRODUCT EXTRACTS

16<sup>00</sup>-16<sup>10</sup> Ratibor Štrbanović, Rade Stanisavljević, Lana Đukanović, Dobrivoj Poštić, Jordan Marković, Veljko Gavrilović, Nenad Dolovac: APPLICA-TION OF ACCELERATED AGING TEST ON ALFALFA SEED

16<sup>10</sup>-16<sup>20</sup> Pavle Jovanov, Marijana Sakač, Bojana Šarić, Ivan Milovanović, Dubravka Jambrec, Ljubiša Šarić, Jovana Kos: NEONICOTINOIDS AS A POTENTIAL THREAT TO HONEY - DEVELOPMENT OF LIQUID CHROMATOGRAPHY METHODS FOR THEIR DETERMINATION

17<sup>00</sup>-19<sup>00</sup>- Workshop for technologists and managers of silo and seed processina

 Cleaning of exhoust fluid of grain dryer, dr Ivan Pavkov, - Crotection from explosions and fires at grain silo, Milivoi Radojčin

- Safety in handling of electrical devices, dr Dragan Matić

Wednesday, 22.04.2015 - Cultural, historical and recreational trips TRIP - Visit the town of Valjevo. Visit the National Museum, Muselim's konak, art painting gallery and the old part of town called Tešnjar. After that is ethno lunch and fun with music at the hotel restaurant »Grand«(\*\*\*\*) in Valjevo. Before going on a trip ahead of the hotel will be the darts competition and pulling the rope game.

Thursday, 23.04.2015.

08<sup>30</sup>-13<sup>10</sup> NATIONAL SCIENTIFIC PROGRAM (oral presentation in Serbian) Chairpersons: Milovan Pavlov, Slavko Ivanišević, Snježana Pupavac

 $08^{30}$ - $08^{45}$ Milovan Pavlov, Goran Todorović, Miloš Crevar, Miodrag Tolimir: IN-FLUENCE OF HYBRID COMBINATIONS ON THE MAIZE SEED TRAITS - Invited Paper

Đorđe Psodorov, Dragana Plavšić, Nataša Nedeljković, Dubravka Jambrec, Dragan Psodorov, Bojana Kalenjuk, Vojislav Banjac: TECH-NOLOGY OF LIGHTWEIGHT MILLING PRODUCTS FRACTIONS FOR THE PURPOSE OF FAT REPLACERS PRODUCTION - Invited Paper

Sandra Bogdanović, Svetlana Balešević-Tubić; THE IMPORTANCE OF USING CERTIFIED SEED  $09^{15} - 09^{30}$ 

Vlade Đoković, Svetlana Balešević Tubić, Sandra Bogdanović: STATE OF SEED PRODUCTION IN THE REPUBLIC OF SERBIA

Branimir Šimić, Josip Šimenić, Anto Mijić, Ivica Liović, Vlado Guberac: OPPORTUNITIES TO IMPROVE THE QUALITY AND QUANTITY OF SUNFLOWER SEED PRODUCTION

 $09^{45}$ - $10^{00}$ Pause

Chairpersons: Milivoj Radin, Branimir Šimić, Saša Kulpinac

Rade Stanisavliević, Jasmina Milenković, Dragoslav Đokić, Dragan Terzić, Snežana Tošković, Dobrivoj Poštić, Ratibor Štrbanović: CON-NECTION OF SEED GERMINATION AND VIGOR OF FORAGE AND ORNAMENTAL GRASSES

Aleksandra Đukić-Vuković, Ljiljana Mojović, Jelena Pejin, Sunčica Kocić-Tanackov: DISTILLERY WASTES TO LACTIC ACID AND FEED: BIO-REFINERY APPROACH

 $10^{30} - 10^{45}$ Tihomir Zoranović, Veliko Vukoje: COST EFFECTIVNESS OF AIR / WATER HEAT PUMP - A CASE STUDY

Milena Petković, Željko Kanović, Zoran Jeličić, Milan Rapaić: EXPERT SYSTEM IN DOMAIN OF ENERGY EFFICIENCY AND FAILURE DE-TECTION IN PROCESS INDUSTRY

11<sup>00</sup>-11<sup>10</sup> Zoran Stamenković, Mirko Babić, Ivan Pavkov, Milivoi Radoičin, Milenko Košutić: APPLICATION OF COMBINED DRYING TECHNOLOGY IN THE PRODUCTION OF ORGANIC DRIED FRUITS AND VEGETABLES

11<sup>10</sup>-11<sup>25</sup>

Chairpersons: Danka Dujović, Mirko Protić, Milivoj Radojčin Josip Šimenić, Branimir Šimić, Aleksandra Sudarić, Sanja Mehandžić-Stanišić. Anto Miiić. Ilonka Ivanišić: IMPORTANCE OF CONDITIONS

OF STORAGE ON THE QUALITY OF SOYBEAN AND SUNFLOWER 11<sup>40</sup>-11<sup>55</sup> Veliko Vukoie. Dušan Milić: ORGANIZATIONAL-ECONOMIC CHARAC-

TERISTICS OF PRODUCING DRIED CHERRIES Dragoslav Đokić, Rade Stanisavljević, Dragan Terzić, Jasmina

Milenković, Gordana Radivojević, Ranko Koprivica, Ratibor Štrbanović: EFFICIENCY OF ALFALFA SEED PROCESSING WITH DIFFERENT SEED PURITY

Milan Adamović, Dragan Milivojčević, Čedomir Živanović, Aleksandra Bočarov-Stančić, Predrag Šorić: THE QUALITY OF SILAGE OF CORN PLANTS AND CORN GRAIN SILAGE IN POLYETHYLENE FOIL

12<sup>25</sup>-12<sup>40</sup> Sandra Cveiić, Siniša Jocić, Iliia Radeka, Milan Jocković, Vladimir Miklič: EVALUATION OF STABILITY IN NEW EARLY-MATURING SUN-FLOWER HYBRIDS

Ilija Kamenko, Boris Jakovljević, Filip Kulić, Perica Nikolić, Vladimir Bugarski: WEB BASED APPLICATION FOR VISUALIZATION OF GEOSPATIAL DATA IN AGRICULTURE

Aleksandra Dimitrijević, Anđelko Bajkin, Slobodan Blažin, Dragan Blažin: ENERGY EFFICIENCY OF THE TOMATO OPEN FILED AND GREENHOUSE PRODUCTION

13<sup>00</sup>-13<sup>10</sup> Bojan Marković, Maša Bukurov, Siniša Bikić, Slobodan Tašin; LOW COSTS LIQUID FLOW METERS CALIBRATION FACILITY

13<sup>10</sup> Photographing of the conference participants

16<sup>00</sup>-19<sup>00</sup> Sports and recreational activities

20<sup>00</sup> Gala dinner. Conference closing ceremony. Awards for: the best oral presentation, the best poster and the best young oral presenter (younger than 35 years). Awards for sport winers. Fun, dance, non-comercial lottery.

Friday, 24.04.2015, Departure from hotel