

**Faculty of Agriculture  
Goce Delcev University - Stip**



**1<sup>st</sup> INTERNATIONAL MEETING  
AGRISCIENCE & PRACTICE  
(ASP 2018)**

**PROGRAMME**

**10<sup>th</sup> - 11<sup>th</sup> May 2018  
Stip, Republic of Macedonia**

## **SCEINTIFIC AND EDITORIAL COMMITTEE**

1. Aco Kuzelov, PhD, Macedonia
2. Danijela Raičević, PhD, Montenegro
3. Dragan Skorić, PhD, Serbia
4. Dragomir Vlcev, PhD, Bulgaria
5. Hatice Gülen, PhD, Turkey
6. Jovica Vasin, PhD, Serbia
7. Kiril Bahcevandziev, PhD, Portugal
8. Klemen Lisjak, PhD, Slovenia
9. Liljana Koleva Gudeva, PhD, Macedonia
10. Ljupco Mihajlov, PhD, Macedonia
11. Marijan Bubola, PhD, Croatia
12. Maryna Mardar, PhD, Ukraine
13. Rubin Gulaboski, PhD, Macedonia
14. Sanja Radeka, PhD, Croatia
15. Sasa Mitrev, PhD, Macedonia
16. Shuhe Wei, PhD, China
17. Velichka Nikolova Rodeva, PhD, Bulgaria
18. Violeta Dimovska, PhD, Macedonia
19. Wolfram Schnäckel, PhD, Germany

## **ORGANISING COMMITTEE**

1. Ljupco Mihajlov, PhD (Chair)
2. Aco Kuzelov, PhD
3. Dusan Spasov, PhD
4. Liljana Koleva Gudeva, PhD
5. Verica Ilieva, PhD
6. Violeta Dimovska, PhD
7. Dragica Spasova, PhD
8. Mite Ilievski, PhD
9. Biljana Balabanova, PhD
10. Biljana Kovacevik, PhD
11. Emilija Arsov, PhD
12. Fidanka Ilieva, PhD
13. Fidanka Trajkova, PhD
14. Natalija Markova Ruzdik, PhD
15. Sanja Kostadinovik Velickovska, PhD
16. Elizabeta Davitkovska Barbareeva, BSc

<i>Day</i>	<i>Time &amp; Place</i>	<i>Activity</i>
<b>10.05.2018 (Thursday)</b>	<b>8<sup>30</sup>-9<sup>30</sup></b> Faculty of Agriculture, Campus 2	<b>Arrival and registration of participants</b>
	<b>9<sup>30</sup>-10<sup>30</sup></b> Assembly Hall Faculty of Agriculture, Campus 2	<b>Opening ceremony</b> <b>Prof. d-r Ljupco Mihajlov</b> , President of the Organizing Committee of ASP 2018 and Dean of the Faculty of Agriculture, GDU – Stip <b>Mr. Ljupco Nikolovski</b> , Minister of Agriculture, Forestry and Water Management of Republic of Macedonia <b>Prof. d-r Blazo Boev</b> , Rector of Goce Delcev University – Stip  <b>Acknowledgments awarding ceremony</b>
	<b>10<sup>30</sup>-11<sup>00</sup></b> Assembly Hall Faculty of Agriculture, Campus 2	<b>Moderators of Plenary sessions:</b> Prof. d-r Sasa Mitrev, Prof. d-r Dina Atanasova <b>Plenary presentation 1</b> <b>Effect of abiotic and biotic stress and crop management on health condition and yield of cereals</b>  Dr. Radivoje Jevtić and collaborators, Head of the Department for Small Grains, Institute of Field and Vegetable Crops, Serbia
	<b>11<sup>00</sup>-11<sup>30</sup></b> Assembly Hall Faculty of Agriculture, Campus 2	<b>Plenary presentation 2</b> <b>University-Enterprise knowledge transfer: Can Agriculture be precise?</b>  Prof. dr. Kiril Bahcevandziev, Coimbra Agriculture College, Portugal

<p><b>11<sup>30</sup>-12<sup>00</sup></b> Faculty of Agriculture, Campus 2</p>	<p><b>Coffee break</b></p>
<p><b>12<sup>00</sup>-13<sup>00</sup></b> Assembly Hall Faculty of Agriculture, Campus 2</p>	<p><b>Panel discussion 1</b></p> <p><b>Growing efficiency of utilization financial resources of IPARD funds – investment in precise agriculture</b></p> <p>Moderator: Prof. d-r Sasa Mitrev (Faculty of Agriculture, GDU – Stip, Macedonia)</p> <p>Invited panelists: Mr. Nikolce Babovski (Director of Agency for Financial Support of Agriculture and Rural Development, Macedonia), Marina Stojanova, PhD (ISSAP Puskarov – Sofia, Bulgaria)</p>
<p><b>13<sup>00</sup>-14<sup>30</sup></b> Campus Cafeteria, Campus 2</p>	<p><b>Cocktail</b></p>
<p><b>14<sup>30</sup>-16<sup>00</sup></b> Assembly Hall Faculty of Agriculture, Campus 2</p>	<p><b>Sections: Plant protection; Soil science and hydrology</b></p> <p><b>Oral presentations</b></p> <p>Moderators of the sections: Prof. d-r Sasa Mitrev, D-r Radivoje Jevtić, Asst. prof. Emilija Arsov</p>
<p><b>14<sup>30</sup>-14<sup>45</sup></b></p>	<p>Sasa Mitrev, Biljana Kovacevik, Emilija Arsov</p> <p><b>Detection of <i>Pectobacterium carotovorum</i> subsp. <i>carotovorum</i>, Bacterial Stalk and Heat Rot disease on sunflower seeds</b></p>

14 <sup>45</sup> -15 <sup>00</sup>	Biljana Tuckovska, Emilija Arsov, Sasa Mitrev <b>Study of Stolbur phytoplasma on wine grapevine variety in the Republic of Macedonia</b>
15 <sup>00</sup> -15 <sup>15</sup>	Gligor Bojkov, Emilija Arsov, Sasa Mitrev <b>Impact of ampelotechnical measures in the grapevine protection from occurrence of gray mold (<i>Botrytis cinerea</i>)</b>
15 <sup>15</sup> -15 <sup>30</sup>	Natalija Atanasova-Pancevska, Jane Bogdanov, Violeta Boskovska, Verica Peneva, Dzoko Kungulovski <b>Use of some essential oils in biological control of plant pathogenic fungi</b>
15 <sup>30</sup> -15 <sup>45</sup>	Ivan Kungulovski, Dzoko Kungulovski <b>Aerobic granulation technology for cost efficient municipal and industrial wastewater treatment &lt;GRANULIS&gt;</b>
15 <sup>45</sup> -16 <sup>00</sup>	<b>Section discussion and concluding remarks</b>
14 <sup>30</sup> -16 <sup>00</sup> Classroom 10 Faculty of Agriculture, Campus 2	<b>Sections: Plant biotechnology; Plant production; Viticulture, enology and fruit production</b>  <b>Oral presentations</b>  Moderators of the sections: Prof. d-r Liljana Koleva Gudeva, Prof. d-r Verica Ilieva, Prof. d-r Violeta Dimovska

14 <sup>30</sup> -14 <sup>45</sup>	Liljana Koleva Gudeva, Fidanka Trajkova <b>Application of phytohormones in improvement of agricultural and horticultural species in <i>in vitro</i> and <i>in vivo</i> conditions</b>
14 <sup>45</sup> -15 <sup>00</sup>	Adrijana Burovska, Dragica Spasova, Biljana Atanasova, Dusan Spasov, Mite Ilievski <b>Examination of some quality features of oats grown in conditions of organic production</b>
15 <sup>00</sup> -15 <sup>15</sup>	Dina Atanasova, Vasilina Maneva <b>Organic grain crops in Institute of Agriculture – Karnobat, Bulgaria</b>
15 <sup>15</sup> -15 <sup>30</sup>	Todorka Savova <b>Advancement of productivity breeding of winter oats (<i>Avena sativa</i> L.) at the Institute of Agriculture in Karnobat, Bulgaria</b>
15 <sup>30</sup> -15 <sup>45</sup>	Efremco Nikolov, Violeta Dimovska, Fidanka Ilieva <b>The effect of pruning on fruiting capacity of Michel Palieri table grape variety, growing in Tikves vineyard</b>
15 <sup>45</sup> -16 <sup>00</sup>	<b>Section discussion and concluding remarks</b>

<p><b>16<sup>00</sup>-17<sup>00</sup></b></p> <p>Hallway</p> <p>Faculty of Agriculture, Campus 2</p>	<p><b>Poster session 1</b></p> <p><b>Moderators of Poster session 1:</b> <b>Prof. d-r Dusan Spasov, Prof. d-r Fidanka Trajkova, Prof. d-r Todorka Savova</b></p>
	<p>Desislava I. Mantovska, Ivalena I. Ilieva, Veneta M. Kapchina-Toteva, Zhenya P. Yordanova</p> <p><b><i>In vitro</i> multiplication of the Balcan endemic species <i>Stachys leucoglossa</i> Griseb. and <i>Stachys balcanica</i> P.W.ball. [PBT 1]</b></p>
	<p>Ely Zayova, Trendafil Nedev, Ludmila Dimitrova, Alexandar Tomov, Detelina Petrova, Aneliya Raycheva, Ganka Chaneva</p> <p><b>Efficient protocol for micropropagation of <i>Artemisia annua</i> L. [PBT 2]</b></p>
	<p>Ivana Velesanova, Fidanka Trajkova, Liljana Koleva Gudeva</p> <p><b>Micropropagation of ornamental plants: practical application and opportunities in Republic of Macedonia [PBT 3]</b></p>
	<p>Marija Pockovska, Fidanka Trajkova, Liljana Koleva Gudeva</p> <p><b>Current application of anther culture as a tool for of improvement of horticultural crops [PBT 4]</b></p>
	<p>Momchil Paunov, Hristiyan Ivanov, Vasil Chavgov, Alexander Tomov, Victor Rashev, Anelia Raycheva, Ganka Chaneva, Miroslava Zhiponova</p> <p><b>Modulation of the primary metabolism of <i>Pisum sativum</i> L. by gibberellic acid [PBT 5]</b></p>

	<p>Valentina Butleska Gjoroska, Marija Krstikj, Ivana Jovanovska-Klincharska, Ana Cvetanovska, Lenka Cvetanovska, Liljana Koleva Gudeva</p> <p><b>Evaluation of total phenols in alfalfa (<i>Medicago sativa</i> L.), collected from different localities in the Republic of Macedonia [PBT 6]</b></p>
	<p>Ivan Donev, Ljupco Mihajlov, Emilija Arsov, Sasa Mitrev</p> <p><b>Agroecological conditions for production of some sunflower hybrids in the Region of Ovce Pole [PPD 1]</b></p>
	<p>Kata Angelova, Verica Ilieva, Natalija Markova Ruzdik, Ilija Karov, Ljupco Mihajlov, Mite Ilievski</p> <p><b>Examination on yield and yield associated parameters in different rice genotypes [PPD 2]</b></p>
	<p>Mite Ilievski, Biljana Atanasova, Dusan Spasov, Dragica Spasova, Verica Ilieva, Natalija Markova Ruzdic, Pavle Vuckov</p> <p><b>Protein profile of some genotypes of flax (<i>Linum usitatissimum</i> L.) in the Strumica region, Republic of Macedonia [PPD 3]</b></p>
	<p>Monika Gligorova, Ljupco Mihajlov</p> <p><b>Opportunities and recommendations for cultivation of chickpeas (<i>Cicer arietinum</i> L.) [PPD 4]</b></p>



	<p>Nenad Petkovski, Ljupco Mihajlov, Natalija Markova Ruzdik</p> <p><b>Genetic and environmental effect on the grain yield of spring barley varieties cultivated in the Republic of Macedonia [PPD 5]</b></p>
	<p>Kristina Manevska, Emilija Arsov, Sasa Mitrev</p> <p><b><i>Xylella fastidiosa</i> - Possible threat in production of grapevine and olive trees in the Republic of Macedonia [PPR 1]</b></p>
<b>16<sup>50</sup>-17<sup>00</sup></b>	<b>Poster Section concluding remarks</b>
<p><b>All-day event</b> Hallway Faculty of Agriculture, Campus 2</p>	<b>Display of exhibition stands of agricultural companies</b>
<p><b>19<sup>00</sup></b> Restaurant of Goce Delcev University, Stip</p>	<b>Gala dinner</b>

<i>Day</i>	<i>Time &amp; Place</i>	<i>Activity</i>
<b>11.05.2018 (Friday)</b>	<b>8<sup>30</sup>-9<sup>30</sup></b> Faculty of Agriculture, Campus 2	<b>Arrival and registration of participants</b>
	<b>9<sup>30</sup>-10<sup>00</sup></b> Assembly Hall  Faculty of Agriculture, Campus 2	<b>Moderators of Plenary session:</b>  Asst. prof. Biljana Balabanova, Dr. Jovica Vasin  <b>Plenary presentation 3</b>  <b>Biological nitrogen fixation: an efficient source of nitrogen for sustainable agricultural production?</b>  Dr. Đura Karagić, Head of the Department for Forage Crops, Institute of Field and Vegetable Crops, Serbia
	<b>10<sup>00</sup>-10<sup>30</sup></b> Assembly Hall  Faculty of Agriculture, Campus 2	<b>Panel discussion 2</b>  <b>Declining content of organic matter – threat for agricultural soils</b>  Moderator: Asst. prof. Biljana Balabanova (GDU – Stip, Macedonia)  Invited panelists: Dr. Jovica Vasin (Institute of Field and Vegetable Crops, Serbia), Đura Karagić (Institute of Field and Vegetable Crops, Serbia), Asst. prof. Mile Markoski (Faculty of Agricultural Sciences and Food, Macedonia), Mite Ilevski (Faculty of Agriculture, GDU – Stip, Macedonia)
	<b>10<sup>30</sup>-11<sup>00</sup></b> Faculty of Agriculture, Campus 2	<b>Coffee break</b>

<p><b>11<sup>00</sup>-12<sup>30</sup></b> Assembly Hall Faculty of Agriculture, Campus 2</p>	<p><b>Sections: Plant protection; Quality control and food safety</b> <b>Oral presentations</b></p> <p>Moderators of the sections: Prof. d-r Aco Kuzelov, Asst. prof. Biljana Kovacevik, Asst. prof. Dimitar Nakov</p>
<p><b>11<sup>00</sup>-11<sup>15</sup></b></p>	<p>Biljana Gverovska</p> <p><b>Effective control of the tobacco seedlings from damping off disease in dual infection in beds</b></p>
<p><b>11<sup>15</sup>-11<sup>30</sup></b></p>	<p>Zoran Zdravev, Emilija Arsov, Fidanka Trajkova, Sasa Mitrev</p> <p><b>Implementation of modern IT tools in agricultural practice</b></p>
<p><b>11<sup>30</sup>-11<sup>45</sup></b></p>	<p>Stefan G. Dragoev, Dessislava B. Vlahova-Vangelova, Dessislav K. Balev, Kolyo T. Dinkov, A. Kuzelov</p> <p><b>Peculiarities of horse meat aging</b></p>
<p><b>11<sup>45</sup>-12<sup>00</sup></b></p>	<p>Dimitar Nakov, Metodija Trajchev</p> <p><b>Monitoring udder health and milk hygiene on-farm using quick screening methods</b></p>
<p><b>12<sup>00</sup>-12<sup>15</sup></b></p>	<p>Biljana Balabanova, Violeta Ivanova-Petropulos, Sasa Mitrev</p> <p><b>Characterization of lead isotope ratios in various plant foods and beverages with application of Q-ICP-MS</b></p>
<p><b>12<sup>15</sup>-12<sup>30</sup></b></p>	<p><b>Section discussion and concluding remarks</b></p>

<p><b>11<sup>00</sup>-12<sup>00</sup></b> Classroom 10 Faculty of Agriculture, Campus 2</p>	<p><b>Sections: Agricultural economics; Plant production; Soil science and hydrology</b> <b>Oral presentations</b></p> <p>Moderators of the sections:</p> <p>Prof. d-r Slivana Pashoska, Prof. d-r Rubin Gulaboski, Prof. d-r Ljupco Mihajlov</p>
<p><b>11<sup>00</sup>-11<sup>15</sup></b></p>	<p>Silvana Pashoska, Trajko Miceski <b>Development of family business in tobacco production activities</b></p>
<p><b>11<sup>15</sup>-11<sup>30</sup></b></p>	<p>Lence Buseva, Dragica Spasova, Biljana Atanasova <b>Characterization of some domestic and introduced cotton varieties in the agroecological conditions of Strumica region</b></p>
<p><b>11<sup>30</sup>-11<sup>45</sup></b></p>	<p>Stamen Dimitrov, Ivan Zhalnov, Chavdar Dochev <b>Preparing maize descriptions for DUS</b></p>
<p><b>11<sup>45</sup>-12<sup>00</sup></b></p>	<p>Ivan Zhalnov, Stamen Dimitrov, Nikolay Georgiev <b>Testing of German maize hybrids for economical qualities</b></p>
<p><b>12<sup>00</sup>-12<sup>15</sup></b></p>	<p>Milan Mitreski, Jane Aleksoski, Ana Korubin – Aleksoska, Marjan Trajkoski, Jordan Trajkoski <b>Variation of morphological properties in some Virginia tobacco varieties</b></p>
<p><b>12<sup>15</sup>-12<sup>30</sup></b></p>	<p>Ljupco Mihajlov, Fidanka Trajkova <b>Green manure as an alternative for improvement of soil fertility</b></p>
<p><b>12<sup>30</sup>-12<sup>45</sup></b></p>	<p><b>Section discussion and concluding remarks</b></p>

<p><b>12<sup>45</sup>-13<sup>30</sup></b> Hallway Faculty of Agriculture, Campus 2</p>	<p><b>Poster session 2</b> <b>Moderators of Poster session 2:</b></p> <p>Prof. d-r Elenica Sofijanova, Prof. d-r Sanja Kostadinović Veličkovska, Prof. d-r Violeta Dimovska</p>
	<p>Despina Popovska, Biljana Drvoshanova, Afrodita Ibushoska, Lazo Dimitrov, Jovan Azderski</p> <p><b>Transition processes in agriculture in the Republic of Macedonia with accent on the vegetable production [AE 1]</b></p>
	<p>Elenica Sofijanova, Ljupco Mihajlov</p> <p><b>Economical profitability of production of open-filed tomatoes (<i>Solanum lycopersicum</i> L.) for processing industry [AE 2]</b></p>
	<p>Ana Korubin – Aleksoska, Milan Mitreski, Jane Aleksoski, Mohammad Ayaz Ahmad, Sime Dojcinov, Zarko Bebic</p> <p><b>Study of quantitative characteristics in oriental tobacco genotypes [PPD6]</b></p>
	<p>Jane Aleksoski</p> <p><b>The effect of backcross method in tobacco breeding [PPD 7]</b></p>
	<p>Karolina Kochoska, Milan Mitreski, Romina Kabranova, Ilija Risteski</p> <p><b>Degustational properties of some basmak tobacco varieties [PPD 8]</b></p>
	<p>Dimce Kitanovski, Vladimir Kitanovski, Elena Joshevska</p> <p><b>Determination of the influence of cattle breeds on the colour of calf meat [QCFS 1]</b></p>

	<p>Dusica Santa, Dimitar Nakov, Sonja Srbinovska, Metodija Trajcev</p> <p><b>Seasonal changes on bovine bulk tank milk quality from three regions in Macedonia</b></p> <p>[QCFS 2]</p>
	<p>Mitre Stojanovski, Anita Cakarova, Aco Kuzelov, Elena Josevska, Gordana Dimitrovska, Dzulijana Tomovska, Katerina Bojkovska</p> <p><b>Changes of fatty-acid composition of animal meat after thermic processing</b></p> <p>[QCFS 3]</p>
	<p>Violeta Dimovska, Fidanka Ilieva, Ljupco Mihajlov, Sanja Kostadinović Veličkovska, Biljana Kovacevik</p> <p><b>Antimicrobial activity of pomegranate peel extracts from “Karamustafa” and “Idžis” varieties</b> [QCFS 4]</p>
	<p>Vesna Markoska, Kiril Lisichkov, Blazo Boev, Rubin Gulaboski</p> <p><b>The influence of the perlite as a substrate for improving on some water properties on the fluvial soil with an application of retentional curves</b> [SSH 1]</p>
	<p>Efremco Nikolov, Dimitrija Angelkov, Violeta Dimovska</p> <p><b>Vineyard irrigation systems controlled online through GMS module</b> [VEFP 1]</p>
	<p>Venelin Roychev, Angel Ivanov, Neli Keranova, Nikolay Tsaykin</p> <p><b>Agrobiological estimation of grapevine varieties for white and red wines</b> [VEFP 2]</p>
13 <sup>20</sup> -13 <sup>30</sup>	<b>Poster Section concluding remarks</b>

<b>All-day event</b> Hallway Faculty of Agriculture, Campus 2	<b>Display of exhibition stands of companies</b>
13 <sup>30</sup> -14 <sup>00</sup> Assembly Hall Faculty of Agriculture, Campus 2	<b>Closing ceremony</b>

**1<sup>st</sup> INTERNATIONAL MEETING  
AGRISCIENCE & PRACTICE (ASP 2018)  
Faculty of Agriculture, Goce Delcev University - Stip  
10<sup>th</sup> - 11<sup>th</sup> May 2018, Stip, Republic of Macedonia**