

Program

4th International Symposium for Agriculture and Food *Trends and Prospects* 12 - 14 October 2022 Ohrid, North Macedonia

Organized by

Ss. Cyril and Methodius University in Skopje
Faculty of Agricultural Sciences and Food - Skopje



COORGANIZERS



P R O G R A M

IV INTERNATIONAL SYMPOSIUM FOR AGRICULTURE AND FOOD - ISAF 2022

12-14 October 2022, Ohrid, North Macedonia

**Faculty of Agricultural Sciences and Food-Skopje
Ss. Cyril and Methodius University in Skopje**

EVENTS WITHIN ISAF 2022

**40th Faculty-Economy Meeting
Association of the Faculties for Agricultural Sciences of
South Eastern Europe – Deans meeting
13th International Conference of the Association of Agricultural
Economists of the Republic of North Macedonia (AAEM)
and celebrating
25th anniversary of AAEM
9th Balkan Animal Sciences Conference BALNIMALCON 2022**

The Faculty of Agricultural Sciences and Food–Skopje is organizing the 4th International Symposium for Agriculture and Food (ISAF-2022), which offers a possibility for presenting novel and fundamental advances in the field of sustainable agriculture and food production. ISAF 2022 will bring together and foster the communication among leading researchers, engineers and practitioners with an aim to share their scientific ideas and experiences with all actors in the agricultural sector. Since 2012, the International Symposium for Agriculture and Food is integrating the previous organized events: Faculty-Economy Meeting, Symposium of Viticulture and Wine Production, Symposium for Vegetable and Flower Production and International Conference of the Association of Agricultural Economists of the Republic of North Macedonia.

The topics of ISAF 2022 are divided into the following scientific sections:

- 1. Animal Biotechnology & BALNIMALCON 2022**
- 2. Agricultural Economics**
- 3. Agricultural Machinery**
- 4. Plant Protection - Phytomedicine**
- 5. Food Quality and Safety**
- 6. Fruit Growing, Viticulture and Wine Production**
- 7. Vegetable, Flower and Decorative Plants Production**
- 8. Natural Resources Management and Environment Protection**
- 9. Field Crop Production**
- 10. Genetics, Breeding and Genetic Resources**

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PLENARY SPEAKERS



Prof. Dr. Riccardo Valentini

Topic: Climate change: the new challenges of smart agriculture and its digital transformation

Dr. Riccardo Valentini is full professor of Forest Ecology at the University of Tuscia, Italy. His expertise concern the role of land use changes and forestry in the carbon cycle, biodiversity and bioenergy. He is also involved through IPCC and governmental bodies on policies about the global carbon cycle and the role of land use changes and forestry. He is coordinator of several EU projects aiming to understand and quantify the terrestrial carbon budget and greenhouse gases emissions. He is coordinator of the EU-Proiect CARBOAFRICA. He is Doctor Honoris Causa Faculté Universitaire des Sciences Agronomiques de Gembloux, Belgium. He is a Nobel Prize for Peace as member of the IPCC board. He is Director of the Impacts Division of the Euro-Mediterranean Center on Climate Change and Member of the Biogeoscience Committee of the European Research Council.

2009: Chairman of the Global Terrestrial Observation System Programme, sponsored by FAO/UNESCO/UNEP/ICSU/WMO.

2010: Coordinator of the EU project CLIMAFRICA.

2010: Award of the Advanced Senior Grant of the European Research Council.

2010: Member of Aurelio Peccei Foundation – Club di Roma 2011 – Coordinator of the EU project GEOCARBON.



Prof. Dr. Emil Erjavec

Topic: Don't the changing economy and society demand a profound reform of university agricultural education?

Dr. Emil Erjavec, head of Governing Board of University of Ljubljana Slovenia (UL) is Full professor of Agricultural Policy and Economics at the Biotechnical Faculty, and President of the University Ljubljana Managerial Board. Between 2002-2018 he was lecturer at the University of Natural Resources and Life Sciences (BOKU) in Vienna.

He is former dean (2018-2020) and between 2010-2014 and 2016-2018, 2020-2021 vicedean of Biotechnical Faculty University of Ljubljana. For the period 2016-2018, he was the Chairman of Council for agriculture and rural development of the Republic of Slovenia. His research expertise covers various aspects of agricultural economics, and he has published over 70 research papers pertaining to national and European agricultural policy, transition and EU integration studies, agricultural sector modelling and political economy analysis. He has assumed numerous coordinating positions in national and international research efforts. In the years 1998-2004, he participated in the talks preceding EU accession as a member of Slovenia's core negotiations team responsible for agriculture. Since 2003, he has been engaged as counsellor in negotiations related to the European Union's periodic financial perspectives and CAP reforms. He has also been invited to share his knowledge and experience as policy and rural development analyst to the FAO, OECD, European Commission and European Parliament, as well as to the governments of all Western Balkan countries. Between 2008 and 2014, he was a Board member of the European Association of Agricultural Economics (EAAE) and between 2008 and 2013 he was president of the Slovenian

Association of Agricultural Economics. For his cooperation efforts, he is getting honourable Doctor degree from the Ss. Cyril and Methodius University in Skopje.



Prof. Dr. Dragi Dimitrievski

Topic: The Macedonian agri-food sector between the needs and opportunities for food security

Dr. Dragi Dimitrievski is a full professor at the Institute of Agricultural Economics at the Faculty of Agricultural Sciences and Food-Skopje, University Ss. Cyril and Methodius in Skopje, and a former Vice-dean for sciences (2003-2005) and former Dean of the Faculty (2009-2017). His research interests and contributions include applied macro-economic analysis in the field of agriculture, with focus on agricultural and rural development policy. Dr. Dragi Dimitrievski is key national expert for agricultural policy and has been actively involved as researcher in different national and international projects related to agricultural and rural development policy analysis. For almost two decades, he is national expert within the Regional Rural Development Standing Working Group in South Eastern Europe (SWG). Dr. Dragi Dimitrievski is regularly being consulted on different important issues regarding the agricultural economics, so as a leader of various national projects, he contributed to development of significant number of strategic and legal documents regarding agricultural policy and rural development. His contribution is especially evident during the food crises due to the Covid-19 and the war in Ukraine, both as support to the policy makers, but also to media to update the public with reliable and thorough information regarding food security issues. All his knowledge and experience in this field he transfers to students through courses in Agricultural Policy that he lectures at all three study cycles, as well as in the course Human Resources Development on the undergraduate studies. Dr. Dragi Dimitrievski has published more than 100 articles in academic journals and international conference proceedings, as well as chapters in different monographs and two textbooks in the field.



Prof. Dr. Hossein Azadi

Topic: Nexus of land, food and energy: The question of SDGs

Dr. Hossein Azadi obtained his first PhD in agricultural sciences and his second PhD in geography. He also worked as a postdoc at different universities. During his academic career, he applied a variety of mixed methods on socio-economic impact assessments of agro-environmental development projects with a focus on “development studies”. His asset could be explained by his interdisciplinary background conducting mixed-method techniques (qualitative and quantitative) at local and global levels. Using such techniques, he has published widely (around 230 WoS journal articles) with +5800 citations and h-index of 42 (google scholar). He also has been serving several funding agencies (i.e., Dutch Research Council (NWO), Netherlands, Economic and Social Research Council, United Kingdom, Czech Science Foundation, Czech Republic), with evaluating many research project proposals on development studies. He is also an editorial board member in several international journals including Land Use Policy, Land Degradation and Development, Sustainability and Land.



Prof. Dr. Rodolfo M. Nayga

Topic: The Aging of Farmers: Implications for Agriculture and Beginning Farmer Programs

Dr. Rodolfo M. Nayga, Jr. is currently Professor and Head of the Department of Agricultural Economics at Texas A&M University. Dr. Nayga's research interests include the economics of food valuation, consumption, policy, and health. Prior to rejoining Texas A&M University in 2021, Dr. Nayga was Distinguished Professor and Tyson Endowed Chair in Food Policy Economics at the University of Arkansas. He also was a faculty member at Rutgers University and at Massey University, New Zealand. He has been a Fulbright Senior Scholar at Wageningen University, The Netherlands, adjunct professor at Korea University and Norwegian Institute for Bioeconomy Research, NBER research economist, and senior research fellow of the Waseda Institute for Advanced Study in Tokyo. He is a Fellow of the Agricultural and Applied Economics Association (AAEA), the most prestigious honor given by the association, and also currently AAEA's President-Elect.



Prof. Dr. Konstantinos Karantininis

Topic: Producer commodity organizations creating industry collective goods

Dr. Konstantinos (Kostas) Karantininis is Professor of Business Administration at the Department of Work Science, Business Economics and Environmental Psychology (AEM) at the Swedish University of Agricultural Sciences (SLU) at Alnarp, Sweden. He was previously Van Vliet Chair Professor at the University of Saskatchewan, Canada, and Professor at the University of Copenhagen, Denmark; Assistant professor at the Panteion University of Athens, Greece, and researcher at Wageningen University, The Netherlands, and visiting scholar at UC Berkeley, USA. He holds a BA in law and economics from the Aristotle University of Thessaloniki and MSC and PhD from the University of Saskatchewan, Canada. He has published in international peer reviewed journals and supervised numerous PhD and MSc dissertations in Europe and Africa. His research and teaching is on domestic and international sustainable agri-food industries and value chains, cooperatives, agricultural policy, international trade, economic development, industrial organisation, institutional economics and econometrics; in Greece, The European Union, North America, and Sub-Saharan Africa. He has published the book "A new paradigm for Greek agriculture". Palgrave, 2017, he co-edited a book on cooperatives (Springer, 2007) and has published in the Journal of Econometrics, the American Journal of Agricultural Economics (AJAE), The European Review of Agricultural Economics (ERAE), and other professional Journals. He served as associate editor of the AJAE, the ERAE and JAFIO and other Scientific Journals.



Dr. Claudia Zoani

Topic: Research Infrastructures and their role in support to agrifood systems

Researcher at the ENEA Biotechnology and Agroindustry Division, graduated in Chemistry with a PhD in Analytical Chemistry, she concluded the research activities of a second PhD in Agriculture, Food and Environment. Specialist on atomic spectroscopic and mass spectrometry techniques and Metrology, she conducts R&D activities on Reference Materials and Methods; measurement uncertainty; food quality, safety and traceability; sustainability of agrifood systems; chemical risk assessment. Scientific Secretary of the IMEKO TC23 Metrology in Food and Nutrition and member of the ISO/REMCO WG 17 Liaison coordination, Eurachem WG on Reference Materials UNI Committee General Metrology. She is one of the 10 Italian experts on Circular Economy selected by the Italian Ministry for the Foreign Affairs and International Cooperation (MAECI) for the participation to the Comité des Dix-Italie - Sommet des Deux Rives initiative. Awarded with the Premio Leonardo UGIS for "research and its communication" on 2014. She is the Coordinator of the Research Infrastructure METROFOOD-RI – Infrastructure for Promoting Metrology in Food and Nutrition, included in the ESFRI Roadmap for the Domain Health and Food, which recently concluded its Preparatory Phase upon the H2020 project METROFOOD-PP. She is engaged as PI for ENEA in several national and European ongoing projects, such as the H2020 AgroServ and DGR4Food, the H2020 FNS-Cloud, iNEXT-Discovery and FoodSafety4EU and the ERANET SUSFOOD CORE ORGANIC "PROVIDE". In the frame of the Italian National Plan for Recovery and Resilience, she coordinates the project METROFOOD-IT, focused on "Strengthening of the Italian RI for Metrology and Open Access Data in support to the Agrifood".



Prof. Dr. Machito Mihara

Topic: Promoting Education and Research Dedicated to Sustainable Development in Agricultural Fields at Tokyo University of Agriculture, Japan

Dr. Machito Mihara is Professor at the Faculty of Regional Environment Science, Tokyo University of Agriculture, President of the Institute of Environmental Rehabilitation and Conservation and Director of the Center for Global Initiatives, Tokyo University of Agriculture, Japan. He has obtained his PhD in Agriculture at the United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology, Japan. During his academic career he has worked as a visiting professor at the Royal University of Agriculture, Cambodia, Faculty of Agriculture, Khon Kaen University, Thailand and the Faculty of Agricultural Sciences and Food, University Ss. Cyril and Methodius in Skopje. Professor Mihara is a member of different academic societies (Japanese Society of Irrigation, Drainage and Reclamation Engineering (JSIDRE), Society of Eco-Engineering, Japan, Asian Association for Agricultural Engineering (AAAE), European Society of Agricultural Engineers, International Society of Environmental and Rural Development (ISERD), World Association of Soil and Water Conservation (WASWAC)). He has published in international peer reviewed journals and supervised numerous PhD and MSc dissertations. His research focus is in soil management, soil erosion, irrigation and water management, sustainable development in agriculture.

GENERAL PROGRAMME

DAY 1, Wednesday, October 12th

- 10⁰⁰ – 17⁰⁰ Registration of participants
12⁰⁰ – 13³⁰ Meeting of the Association of the Faculties for Agricultural Sciences of South Eastern Europe I
13³⁰ – 14³⁰ Lunch
14³⁰ – 16⁰⁰ Meeting of the Association of the Faculties for Agricultural Sciences of South Eastern Europe II
17⁰⁰ – 17³⁰ Opening Ceremony
17³⁰ – 19⁰⁰ Plenary Presentations I
19⁰⁰ Welcome Cocktail/Dinner

DAY 2, Thursday, October 13th

- 9⁰⁰ - 10³⁰ Panel Discussion on Food Security and Sovereignty**
10³⁰ - 11⁰⁰ Coffee Break
11⁰⁰ - 12³⁰ Parallel Sessions I
12³⁰ - 14.⁰⁰ Lunch
14⁰⁰ - 15³⁰ Plenary Presentations II
15³⁰ - 16⁰⁰ Coffee Break
16⁰⁰ - 17³⁰ Parallel Sessions II
17³⁰ - 18⁰⁰ Coffee Break
18⁰⁰ - 19³⁰ Parallel Sessions III
20⁰⁰ Gala Dinner

DAY 3, Friday, October 14th

- 9⁰⁰ - 10³⁰ Poster Session
10³⁰ - 11⁰ Coffee Break
11⁰⁰ - 13⁰⁰ Panel Discussion on Digital Agriculture and Smart Specialization
13⁰⁰ - 13¹⁵ Closing Ceremony
13¹⁵ - 14³⁰ Networking event with cocktail
14³⁰ Excursion (optional)

	Time	Activity	Location	SECTION
DAY 1 Wednesday, October 12th	10 ⁰⁰ – 17 ⁰⁰	Registration of participants	Desk in main lobby	
	17 ⁰⁰ – 17 ³⁰	Opening Ceremony		
	17 ³⁰ – 19 ⁰⁰	Plenary Presentations I	Biljana Hall	
	09 ⁰⁰	Registration of participants Poster submission	Desk in main lobby	
	9 ⁰⁰ – 10 ³⁰	Panel Discussion on Food Security and Sovereignty	Biljana Hall	
	10 ³⁰ – 11 ⁰⁰	Coffee break		
	11 ⁰⁰ – 12 ³⁰	Parallel Sessions I	Biljana Hall	5
			Car Samoil	8
			Kaneo Hall	6
			Ohrid Hall	2
			Banket Hall	9
	12 ³⁰ – 14 ⁰⁰	Lunch		
	14 ⁰⁰ – 15 ³⁰	Plenary Presentations II	Biljana Hall	
	15 ³⁰ - 16 ⁰⁰	Coffee break		
	16 ⁰⁰ - 17 ³⁰	Parallel Sessions II	Biljana Hall	1
			Car Samoil	8
			Kaneo Hall	6
			Ohrid Hall	2
			Banket Hall	3
	17 ³⁰ - 18 ⁰⁰	Coffee break		
DAY 2 Thursday, October 13th	18 ⁰⁰ – 19 ³⁰	Parallel Sessions III	Biljana Hall	10
			Car Samoil	8
			Kaneo Hall	7,10
			Ohrid Hall	2
			Banket Hall	4
	08 ⁰⁰	Registration of participants	Desk in main lobby	
	9 ⁰⁰ – 10 ³⁰	Poster submission Poster Sesion	Labino Hall	1, 2, 4, 5, 6, 7, 8, 9, 10
	10 ³⁰ – 11 ⁰⁰	Coffee break		
	11 ⁰⁰ – 13 ⁰⁰	Panel Discussion on Digital Agriculture and Smart Specialization	Biljana Hall	
	13 ⁰⁰ – 13 ¹⁵	Closing Ceremony	Biljana Hall	
	13 ¹⁵ – 14 ³⁰	Networking event with cocktail		
DAY 3 Friday, October 14th				

**Day 1,
12 October, Wednesday
BILJANA HALL**

Time

10⁰⁰ – 17⁰⁰ **Registration of participants (Desk in main lobby)**

12⁰⁰ – 13³⁰ Meeting of the Association of the Faculties for Agricultural Sciences of South Eastern Europe I

13³⁰ – 14³⁰ **Lunch**

14³⁰ – 16⁰⁰ Meeting of the Association of the Faculties for Agricultural Sciences of South Eastern Europe II

17⁰⁰ – 17³⁰ **Opening Ceremony**

17³⁰ – 19⁰⁰ **Plenary Presentations I**

19⁰⁰ **Welcome Cocktail/Dinner**

Day 2,
13 October, Thursday
BILJANA HALL

Time

9⁰⁰ – 10³⁰ PANEL DISCUSSION ON FOOD SECURITY AND SOVEREIGNTY

Official opening remarks: Prof. Dr. Vjekoslav Tanaskovikj, Dean of the Faculty of Agricultural Sciences and Food – Skopje, North Macedonia

Moderator: Prof. Dr. Dragi Dimitrievski, Faculty of Agricultural Sciences and Food, Ss. Cyril and Methodius University in Skopje, North Macedonia

Panelists:

Mr. Ljupco Nikolovski, Minister of Agriculture, Forestry and Water Economy, North Macedonia

Prof. Dr. Charalambos Kasimis, Professor Emeritus of the Agricultural University of Athens, Greece

Prof. Dr. Emil Erjavec, Biotechnical Faculty, University of Ljubljana, Slovenia

Prof. Dr. Konstantinos Karantinis, Department of Work Science, Business Economics and Environmental Psychology, Swedish University of Agricultural Sciences, Sweden

Prof. Dr. Krunoslav Zmaić, Faculty of Agro Biotechnical Sciences, University Josip Juraj Strossmayer in Osijek, Croatia

10³⁰ – 11⁰⁰ Coffee break



Session I: FOOD QUALITY AND SAFETY		
Time	ID	Moderators: d-r Mirjana S. Jankulovska, d-r Irzada Taljic, d-r Ersin Samli
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	Moderators: d-r Sreten Andonov, d-r Bozidarka Marković, d-r Vladan Bogdanović	
18 ⁰⁰ – 18 ¹⁰	234	PRECISION DAIRY FARMING (PDF) Tutkun, Muhittin
18 ¹⁰ – 18 ²⁰	263	HOW THE SELECTION INTENSITY AFFECTS THE BIAS AND ACCURACY OF BREEDING VALUES? Andonov, Sreten
18 ²⁰ – 18 ³⁰	280	THE EFFECT OF EXTENDING RAM SPERM BEFORE AND AFTER CRYOPRESERVATION ON THEIR VIABILITY AND VELOCITY Nikolovski, Martin; Dovenska, Monika; Bozhinovski, Dimitar; Mickov, Ljupcho; Atanasov, Branko; Dzabirski, Vladimir; Porchu, Kocho; Petkov, Vladimir; Dovenski, Toni
18 ³⁰ – 18 ⁴⁰	366	EFFECTS OF PPARGC1A AND LTF GENES ON MILK YIELD AND COMPOSITION TRAITS IN DAIRY COWS Cobanoglu, Ozden; Ardicli, Sena Discussion
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Session I. NATURAL RESOURCES MANAGEMENT AND ENVIRONMENT PROTECTION		
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11 ⁰⁰ – 11 ¹⁵	204	SUSTAINABLE USE OF SOIL AND WATER RESOURCES FOR IRRIGATION: IRRIGATION EFFICIENCY AND WATER PRODUCTIVITY Çetin, Öner
11 ¹⁵ – 11 ²⁵	102	COMPARISON OF METAL CONTENT DETERMINATION METHODS IN REAL AGRICULTURAL SOIL SAMPLES - CASE STUDY PODRAVINA, CROATIA Zgorelec, Zeljka; Galić, Marija; Perčin, Aleksandra; Kisić, Ivica; Bašić, Ferdo
11 ²⁵ – 11 ³⁵	159	SORPTION OF POTENTIALLY TOXIC METALS IN AFLUVISOL PROFILE AT THE PETRUŠEVEC SITE, (ZAGREB, CROATIA) Ružičić, Stanko; Rubinić, Vedran; Durn, Goran; Sondi, Ivan
11 ³⁵ – 11 ⁴⁵	291	CLIMATE EFFECT ON PROPERTIES OF EURASIAN MOLLI SOLS Kravchenko, Yuri; Yarosh, Anna
11 ⁴⁵ – 11 ⁵⁵	316	CHEMICAL STABILIZATION OF HEAVY METAL CONTAMINATED SOIL NEAR ARCELOR MITTAL IN ZENICA Sijahović, Emina; Čivić, Hamdija; Murtić, Senad
11 ⁵⁵ – 12 ⁰⁵	279	ANTIBIOTIC-RESISTANT BACTERIA IN THE AGROECOSYSTEMS: MONITORING AND RISK ASSESSMENT FOR THE HUMAN HEALTH Symochko, Lyudmyla; Demyanyuk, Olena
12 ⁰⁵ – 12 ¹⁵	265	MAPPING AND DISTRIBUTION OF MEDICINAL AND AROMATIC PLANTS IN NATIONAL PARK PELISTER AND PRESIPA REGION Manasievska, Silvana; Mitkova, Tatjana; Arsov, Toso; Markoski, Mile; Mincev, Ivan; Arsov, Spire Discussion
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16 ²⁰ – 16 ³⁰	196	DETERMINATION OF NUTRITIVE VALUE AND METHANE PRODUCTION POTENTIAL OF SOME BRUSH AND TREE SPECIES Bozkurt Kiraz; Ayfer; Güney, Abdullah Serhat
16 ³⁰ – 16 ⁴⁰	338	A CONTRIBUTION TO THE KNOWLEDGE ON FISHERIES IN THE AREA OF BUDVA, MONTENEGRO, IN THE TIME OF THE ENCHELEANS Bubanja, Goran; Spalevic, Velibor; Folic, Violeta; Bubanja, Dragan; Dudic, Branislav

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16 ⁵⁰ – 17 ⁰⁰	282	USE OF HYPERSPECTRAL DATAS IN DETERMINING WATER STRESS Dođanay, Kivanç Hayri; Aslan, Gülçin Ece
17 ⁰⁰ – 17 ¹⁰	179	NATURAL RESOURCES MANAGEMENT BY APPLICATION OF SMART TECHNOLOGIES IN WATER MANAGEMENT IN BOSNIA AND HERZEGOVINA Marković, Mihajlo; Čereković, Nataša; Hajder, Đurađ; Zapata, Nery; A. Paco, Teresa; E. Riezzo, Erminio; Čadro, Sabrija; Todorović, Mladen
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Session III. NATURAL RESOURCES MANAGEMENT AND ENVIRONMENT PROTECTION		
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Moderators: d-r Zorica Srđević, d-r Svetoslav Malcev, d-r Ordan Cukaliev		
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18 ¹⁰ – 18 ²⁰	332	CONTRIBUTION TO THE KNOWLEDGE OF THE IMPACT OF CLIMATE CHANGES ON IRRIGATION WATER REQUIREMENTS IN THE BALKANS Dragovic, Svetimir; Lazer Narcisovic, Peter; Skataric, Goran; Filipovic, Milica; Spalevic, Velibor
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19 ⁰⁰ – 19 ¹⁰	373	QUANTITATIVE PREDICTION OF TOMATO IRRIGATION NEEDS USING CROPWAT MODEL Grancharova, Elena Georgieva; Elenov, Blagoj; Janevska, Emilija
19 ¹⁰ – 19 ²⁰	302	THE INFLUENCE OF IRRIGATION AND FERTIGATION TECHNIQUES ON SOIL MOISTURE CONTENT AND PEPPER YIELD COMPONENTS Tanaskovik, Vjekoslav; Cukaliev, Ordan; Ondrasek, Gabrijel; Azadi, Hossein; Nechkovski, Stojanche; Markoski, Mile; Spalevic, Velibor Discussion
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20 ⁰⁰	Gala Dinner	

Session I. FRUIT GROWING, VITICULTURE AND WINE PRODUCTION		
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11 ¹⁰ – 11 ²⁰	286	YIELD AND QUALITY OF THE MOLDAVIA GRAPE VARIETY GROWN ON PERGOLA WITH DIFFERENT LENGTHS OF PRUNING Hristov, Petar; Hristov, Riste
11 ²⁰ – 11 ³⁰	251	THE PRUNING SYSTEM AS A FACTOR FOR THE QUALITY OF THE GRAPES FROM THE VRANEC VARIETY Prculovski, Zlatko; Gjorgiev, Riste; Petkov, Mihail; Kryeziu, Sami
11 ³⁰ – 11 ⁴⁰	243	COMPARISON OF TECHNOLOGICAL CHARECTERISTICS BETWEEN CLONE AND TRADITIONAL VARIETY OF CARDINAL TABLE GRAPE Kryeziu, Sami; Prculovski, Zlatko; Boskov, Krum; Zogaj, Muhamet
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12 ⁰⁰ – 12 ¹⁰	228	VESSELS FOR STORAGING WINE IN ANCIENT ROME AND TODAY Atanasovska Cvetkovic, Aneta; Jovanovic, Aleksandra; Canev, Ile
12 ¹⁰ – 12 ²⁰	254	THE INFLUENCE OF YEASTS ON THE CHARACTERISTICS OF THE YOUNG WINES FROM VARIETY VRANEC Kostov, Mile; Petkov, Mihail; Prculovski, Zlatko
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		Moderators: d-r Marjan Kiprijanovski, d-r Miljan Cvetković, d-r Dragan Nikolić
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16 ¹⁰ – 16 ²⁰	230	EVALUATION OF QUALITY AND SENSORY PROPERTIES OF FRUITS FROM NEWLY INTRODUCED APPLE VARIETIES Kiprijanovski, Marjan; Arsov, Tosho; Saraginovski, Nikola; Georgievski, Slavko
16 ²⁰ – 16 ³⁰	220	ADAPTATION OF POMOLOGICAL AND PHYSICAL PROPERTIES AND ADAPTATION OF PICAN VARIETIES Akkus Binici, Sibel; Ak, Bekir Erol; Muradoğlu, Ferhad; Akkuş, Gökhan

16 ³⁰ – 16 ⁴⁰	306	MECHANICAL PLUM PRUNING Cvetković, Miljan
16 ⁴⁰ – 16 ⁵⁰	227	IMPROVEMENT OF TECHNOLOGY FOR GRAFTING WALNUT TREES Georgievski, Slavko; Kiprijanovski, Marjan; Saraginovski, Nikola
16 ⁵⁰ – 17 ⁰⁰	285	PRELIMINARY RESULTS OF THE EVALUATION OF FOUR SWEET CHERRY CULTIVARS ON THE SEMI-VIGOROUS MAXMA 14 Saraginovski, Nikola; Kiprijanovski, Marjan; Arsov, Tosho; Georgievski, Slavko
		Discussion
17³⁰ – 18⁰⁰		Coffee break
		Session III. VEGETABLE, FLOWER AND DECORATIVE PLANTS PRODUCTION
		Moderators: d-r Gordana Popsimonova, d-r Skender Kaciu
18 ⁰⁰ – 18 ¹⁰	125	LETTUCE (LACTUCA SATIVA L.) – THE NEGLECTED VEGETABLE IN THE MACEDONIAN PRODUCTION AND TRADE Gordana Popsimonova; Agic, Rukie; Bogevska, Zvezda; Davitkovska, Margarita
18 ¹⁰ – 18 ²⁰	178	ORGANIC VEGETABLE PATHWAYS IN DEVELOPED AND DEVELOPING COUNTRIES Rukie Agic; Popsimonova, Gordana; Bogevska, Zvezda; Davitkovska, Margarita
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18 ³⁰ – 18 ⁴⁰	371	EFFECT OF BIOLOGICAL AND ORGANIC FERTILIZER ON GROWTH AND GREEN PODS YIELD OF BROAD BEAN Ali Hussein Jasim
		Discussion
		Session IV. GENETICS, BREEDING AND GENETIC RESOURCES
		Moderators: d-r Sonja Ivanovska, cd-r Tsvetelina Dimitrova Stoilova
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18 ⁵⁰ – 19 ⁰⁰	216	THE DIVERSITY OF COWPEA (V. UNGUICULATA L.): AGROMORPHOLOGICAL CHARACTERIZATION OF SUB-SETS OF GERMPLASM COLLECTION Stoilova, Tsvetelina Dimitrova; Velcheva, Nikolaya Ventsislavova
19 ⁰⁰ – 19 ¹⁰	301	PROTEIN QUALITY OF BREAD WHEAT Knezevic, S. Desimir; Novoselskaya-Dragovich, AleksandraYu.; Kudryavtsev, Alexander M.; Paunovic, Aleksandar; Menkovska, Mirjana; Radosavac, Adriana; Matkovic Stojšin, Mirela; Roljevic Nikolic, Svetlana
19 ¹⁰ – 19 ²⁰	323	EVALUATION OF GENETIC VARIATION IN SAFFLOWER REGARDING SOME MORPHOLOGICAL TRAITS Sabaghnia, Naser; Ebrahimi, Hossein; Javanmard, Abdollah; Abbasi, Amin
19 ²⁰ – 19 ³⁰		PERSPECTIVE ORIENTAL VARIETIES OF TOBACCO TYPE PRILEP AND YAKA AND THEIR MORPHOLOGICAL CHARACTERISTICS Miceska, Gordana
		Discussion
20⁰⁰		Gala Dinner

Day 2,
13 October, Thursday
OHRID HALL

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11 ⁰⁰ – 11 ¹⁰	365	RESILIENCE OF MACEDONIAN WHEAT MARKET IN TIME OF CRISES Kotevska, Ana; Dimitrievski, Dragi; Martinovska Stojcheska, Aleksandra
11 ¹⁰ – 11 ²⁰	149	HOW COULD THE CAP MEASURES IMPACT FAMILY FARMS IN AREAS WITH NATURAL CONSTRAINTS IN SERBIA? Papić, Ružica; Bogdanov, Natalija; Todorović, Saša
11 ²⁰ – 11 ³⁰	100	COMPARATIVE OVERVIEW OF SUPPORTING MEASURES IN AGRICULTURAL PRODUCTION IN NORTH MACEDONIA AND SLOVENIA Ivanovska, Katerina
11 ³⁰ – 11 ⁴⁰	307	LAND SUITABILITY ANALYSIS OF AGRICULTURAL STORAGE FOR LOGISTIC PROVIDERS: A META-ANALYSIS Pour, Mahdad; Azadi, Hossein; Dogot, Thomas; Lopez-Carr, David; Tanaskovik, Vjekoslav; Janeska Stamenkovska, Ivana; Lebailly, Philippe
11 ⁴⁰ – 11 ⁵⁰	299	ANALYSIS AND PREDICTION OF PRODUCTION CHARACTERISTICS AND PRICES OF HONEY PRODUCTION IN VOJVODINA REGION Novković, Nebojša Đorđe; Vukelić, Nataša; Mutavdžić, Beba
11 ⁵⁰ – 12 ⁰⁰	342	CREDIT RISK IN AGRICULTURE IN NORTH MACEDONIA: MACROECONOMIC PERSPECTIVES Simonovska, Ana; Velkovski, Dime; Tuna, Emelj; Gjoshevski, Dragan
12 ⁰⁰ – 12 ¹⁰	272	DEVELOPMENTS ON HONEY PRODUCTION AND HONEY EXPORT IN TURKEY Çukur, Tayfun; Çukur, Figen Discussion
12 ³⁰ – 14 ⁰⁰	Lunch	
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		Moderators: d-r Emelj Tuna, d-r Jaka Žgajnar, d-r Marija Cerjak
16 ⁰⁰ – 16 ¹⁰	343	MULTIDIMENSIONAL ANALYSIS OF RURAL POVERTY IN NORTH MACEDONIA Tuna, Emelj; Simonovska, Ana; Petrovska Mitrevska, Biljana
16 ¹⁰ – 16 ²⁰	118	CHILD LABOUR IN AGRICULTURE IN THE REPUBLIC OF SERBIA Babovic, Marija
16 ²⁰ – 16 ³⁰	193	WOMEN'S LABOR AND THE PLACE OF WOMEN IN RURAL AREAS: THE CASE OF ŞANLIURFA Öcal Kara, Fatma; Yiğit, Burçin

16 ³⁰ – 16 ⁴⁰	361	WOMEN EMPOWERMENT IN AGRICULTURE AND THEIR INTERTEMPORAL PREFERENCES Nacka, Marina; Drichoutis, Andreas; Nayga Jr., Rodolfo
16 ⁴⁰ – 16 ⁵⁰	168	DETERMINING THE IMPACT OF CERTAIN RURAL RESOURCES ON HOUSEHOLD INCOME: CASE STUDY IN NORTH MACEDONIA Gjosheva Kovachevikj, Marija; Popovska Stojanov, Despina; Dimitrov, Lazo
16 ⁵⁰ – 17 ⁰⁰	322	PERSPECTIVES OF GLAMPING TOURISM IN CROATIA - OPINION OF EXPERTS AND TOURISTS Cerjak, Marija; Šimunec, Dino; Sušac, Gabriela
17 ⁰⁰ – 17 ¹⁰	345	DEVELOPMENT OF RURAL TOURISM IN ZABLJAK (MONTENEGRO) AS A PRECONDITION OF FASTER RURAL DEVELOPMENT Stijepovic, Darko; Pejanovic, Radovan; Spalevic, Velibor; Skataric, Goran; Zejak, Dejan
17 ¹⁰ – 17 ²⁰	203	THE CONTRIBUTIONS OF DOMESTIC ANIMALS TO PEOPLE IN ECONOMIC AND SOCIAL LIFE Yilmaz, Orhan; Torun Kayabasi, Ehlinaz Discussion
17 ³⁰ – 18 ⁰⁰	Coffee break	
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	Moderators: d-r Marina Nacka; d-r Andreas Drichoutis, d-r Darko Stijepovic	
18 ⁰⁰ – 18 ¹⁰	112	FARM MODEL ANALYSIS OF VITICULTURE SECTOR IN SLOVENIA Žgajnar, Jaka; Janeska Stamenkovska, Ivana
18 ¹⁰ – 18 ²⁰	188	ASSESSING PRODUCTION EFFICIENCY OF BEEKEEPING IN ŞIRNAK PROVINCE, TURKEY Binici, Turan; Küçük, Elif; Sevinç, Reşit; Palabıçak, Muhammed Ali
18 ²⁰ – 18 ³⁰	194	TAX AWARENESS OF FARMERS IN TURKEY Özel, Remziye
18 ³⁰ – 18 ⁴⁰	267	RESHAPE AGRICULTURE THROUGH DIGITAL TRANSFORMATION AND INNOVATION Brka, Muhamed; Brka, Enisa; Đedović, Radica; Kučević, Denis
18 ⁴⁰ – 18 ⁵⁰	312	AGRIFOODBOOST – ECONOMIC EXPERIMENTS APPLIED TO AGRICULTURE, FOOD AND ENVIRONMENT Cerjak, Marija; Sušac, Gabriela; Mesić, Željka
18 ⁵⁰ – 19 ⁰⁰	368	INFLUENCE OF INTERNAL AND EXTERNAL FACTORS ON THE INTRODUCTION OF E-BUSINESS AND E-MARKETING IN AGRIBUSINESS Stojoska, Sanja; Nacka, Marina
19 ⁰⁰ – 19 ¹⁰	202	USE OF PET DOG AND OTHER DOG BREED NAMES AS CRYPTO COINS AND MONETARY VALUES Yilmaz, Orhan; Torun Kayabasi, Ehlinaz Discussion
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13 October, Thursday
BANKET HALL**

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11 ¹⁰ – 11 ²⁰	218	THE EFFECT OF DIFFERENT CUTTING TIMES ON THE MACRO MINERAL CONTENT OF ALFALFA (MEDICAGO SATIVA L.) GENOTYPES Basbag, Mehmet; Sayar, Mehmet Salih; Cacan, Erdal
11 ²⁰ – 11 ³⁰	231	FORAGE QUALITY TRAITS OF SOME ASTERACEAE FAMILY SPECIES FOUND IN NATURAL FLORA OF SOUTHEASTERN ANATOLIA Basbag, Mehmet; Sayar, Mehmet Salih
11 ³⁰ – 11 ⁴⁰	239	SUNFLOWER PRODUCTION IN RN MACEDONIA: CURRENT SITUATION AND FUTURE PROSPECTS Dimov, Zoran; Martinovska Stojcevska, Aleksandra
11 ⁴⁰ – 11 ⁵⁰	313	OVERVIEW OF TOBACCO PRODUCTION IN R.N. MACEDONIA Kabranova, Romina; Arsov, Zlatko
11 ⁵⁰ – 12 ⁰⁰	369	EVALUATION OF FIBER TECHNOLOGICAL PROPERTIES IN BREEDING LINES OF COTTON (GOSSYPIMUM HIRSUTUM L.) Basbag, Sema; Cicek, Silan; Aybar Yalinkilic, Nazli Discussion
12 ³⁰ – 14 ⁰⁰	Lunch	
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		Moderators: d-r Zivko Davcev, d-r Miho Mihov, d-r Ile Canev
16 ⁰⁰ – 16 ¹⁰	189	STUDY OF THE INFLUENCE OF THE BASIC FACTORS FOR THE AMOUNT AND QUANTITY OF DROPS IN PLANT PROTECTION IN AGRICULTURE Davcev, Zivko; Mihov, Miho; Tassev, Georgi
16 ¹⁰ – 16 ²⁰	190	METHODOLOGY FOR EXPERIMENTAL TESTING OF THE RELIABILITY OF AGRICULTURAL MACHINERY Mihov, Miho; Davcev, Zivko; Tassev, Georgi
16 ²⁰ – 16 ³⁰	191	ASSESSMENT OF MACHINES IN RELIABILITY TEST Mihov, Miho; Davcev, Zivko; Tassev, Georgi
16 ³⁰ – 16 ⁴⁰	226	POSSIBILITIES AND PREMISE FOR REDUCTION OF THE CONSUMPTION RATES OF PESTICIDES AND WORKING LIQUID Kostadinov, Georgi Dimitrov; Elenov, Blagoj Pero

16 ⁴⁰ – 16 ⁵⁰	256	ANALYSIS OF THE ENERGY BALANCE OF SELECTED AGRICULTURAL CROPS AND THEIR IMPACT ON THE PRICES OF AGRICULTURAL PRODUCTS Canev, Ile; Iljovski, Igor; Davcev, Zivko
16 ⁵⁰ – 17 ⁰⁰	257	USAGE OF ALTERNATIVE ENERGY-PRODUCING SYSTEMS IN AGRICULTURE Canev, Ile; Iljovski, Igor; Davcev, Zivko
17 ⁰⁰ – 17 ¹⁰	258	PROBABILITY MODEL STUDY FOR DETERMINING THE NUMBER OF SPARE PARTS FOR MAINTAINING THE WORKING CAPACITY OF AGRICULTURAL MACHINERY Stanchev, Stanislav
17 ¹⁰ – 17 ²⁰	260	RESEARCH AND ANALYSIS OF A MODEL FOR THE TERRITORIAL PROVISION OF AGRICULTURAL ORGANISATIONS WITH SPARE PARTS Stanchev, Stanislav; Butinski, Ivan Discussion
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	Session III: PLANT PROTECTION - PHYTOMEDICINE	
	Moderators: d-r Zvonko Pacanoski, d-r Sener Kurt, d-r Ivana Ivanovic	
18 ⁰⁰ – 18 ¹⁰	114	PREPARATION AND BIO-EFFICACY EVALUATION OF PHYTO-PESTICIDE FORMULATION AGAINST COWPEA APHID (APHIS CRACCIVORA KOCH.) Ghosh, Sunil Kumar
18 ¹⁰ – 18 ²⁰	130	CHARACTERIZATION OF CYLINDROCARPON-LIKE ANAMORPHS CAUSING ROOT AND BASAL ROT OF APRICOT AND IN VITRO ACTIVITIES OF SOME FUNGICIDES Kurt, Şener; Uysal, Aysun; Kara, Merve; Soylu, Soner; Soylu, Emine Mine
18 ²⁰ – 18 ³⁰	174	ANTIBACTERIAL ACTIVITIES AND MAJOR COMPONENTS OF ESSENTIAL OILS OF FIVE AROMATIC PLANTS AGAINST BACTERIAL DISEASE AGENTS Gümüş, Yusuf; Soylu, Soner; Kara, Merve; Türkmen, Musa
18 ³⁰ – 18 ⁴⁰	177	HARMFUL INSECTS FROM FAM. TORTRICIDAE AND GELECHIIDAE (LEPIDOPTERA) ON STONE FRUIT IN NORTH MACEDONIA Golubovski, Miroljub; Lazarevska, Stanislava
18 ⁴⁰ – 18 ⁵⁰	198	EFFICACY AND SELECTIVITY OF PRE AND POST EM HERBICIDES IN DIFFERENT POTATO VARIETIES Pacanoski, Zvonko; Saliji, Alirami
18 ⁵⁰ – 19 ⁰⁰	329	AN ECONOMICALLY IMPORTANT PLANT VIRUS VECTOR, BEMISIA TABACI GENN. Yeşil, Serkan Discussion
20 ⁰⁰	Gala Dinner	

**Day 3,
Friday, October 14th
BILJANA HALL**

**Time
11⁰⁰ – 13⁰⁰**

PANEL DISCUSSION DIGITAL AGRICULTURE AND SMART SPECIALIZATION

Official opening remarks:

Prof. Dr. Vjekoslav Tanaskovikj, Dean of the Faculty of Agricultural Sciences and Food – Skopje, North Macedonia

Mr. Fatmir Bitikji, Deputy of the Prime Minister in charge for economic issues, coordination of economic departments and investments, North Macedonia

Moderator: Prof. Dr. Ordan Cukaliev, Faculty of Agricultural Sciences and Food, Ss. Cyril and Methodius University in Skopje, North Macedonia

Panelists:

Prof. Dr. Zdenko Lončarić, Faculty of Agro Biotechnical Sciences, University Josip Juraj Strossmayer in Osijek, Croatia

Prof. Dr. Aleksandra Martinovska Stojcheska, Faculty of Agricultural Sciences and Food, Ss. Cyril and Methodius University in Skopje, North Macedonia

Prof. Dr. Vladimir Atanasovski, Faculty of Electrical Engineering and Information Technologies, Ss. Cyril and Methodius University in Skopje, North Macedonia

Prof. Dr. Aleksandar Sedlar, Faculty of Agriculture, University of Novi Sad, Serbia

Ms. Milica Trajković, BioSense Institute, University of Novi Sad, Serbia

Prof. Dr. Giovanni Aloisio, University of Salento, Supercomputing Center-CMCC, Italy

Mr. Goran Damovski, Swiss funded Increasing Market Employability Program in North Macedonia, North Macedonia

13⁰⁰ – 13¹⁵

Closing Ceremony

POSTER SESSION

**Day 3,
14 October 2022, Friday
LABINO HALL**

**Time
9⁰⁰ to 10³⁰**



Section 1. ANIMAL BIOTECHNOLOGY

Moderator: d-r Katerina Belichovska, d-r Dusica Santa	ID
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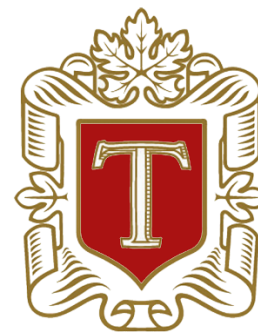
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