

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



**5th INTERNATIONAL MEETING
AGRISCIENCE & PRACTICE
(ASP 2026)**

BOOK OF ABSTRACTS

**16 APRIL 2026
Stip, Republic of North Macedonia**

BOOK OF ABSTRACTS
5th International Meeting AGRISCIENCE & PRACTICE
(ASP 2026)

Publisher:
Faculty of Agriculture, Goce Delcev University, Stip

Editor
Prof. Liljana Koleva Gudeva, PhD

Technical editors
Prof. Fidanka Trajkova, PhD

English language editor
Biljana Petkovska Ivanova (MA, Senior lecturer)

The abstracts are technically edited according to the 'Template for Abstracts', without additional editing of the abstract text. The results and writing style are presented in the original form provided by the authors.

CIP - Каталогизација во публикација

Национална и универзитетска библиотека "Св. Климент Охридски", Скопје

631/635(062)(084.3)

INTERNATIONAL meeting agriscience & practice (ASP 2026) (5 ; 2026 ;
Stip)

Book of abstracts : Електронски извор / 5th International meeting agriscience & practice (ASP 2026, Stip, Republic of North Macedonia) ; [editor Liljana Koleva Gudeva]. - Текст во PDF формат, содржи VI, 48, илустр. - Stip : Goce Delcev University, Faculty of agriculture, 2026

Начин на пристапување (URL): <https://zf.ugd.edu.mk/c/agronauka/> (Отворен пристап). -

Наслов преземен од екранот. - Опис на изворот на ден 13.05.2026. - Organizing committee
Emilija Arsov, Biljana Balabanova, Biljana Kovacevik, Dimitar Nakov, Fidanka Trajkova, Natalija
Markova Ruzdik, Elizabeta Davitkovska Barbareeva, Ivan Donev

ISBN 978-608-277-154-0

**5th INTERNATIONAL MEETING AGRISCIENCE & PRACTICE
ASP 2026**

**Organized by
FACULTY OF AGRICULTURE
GOCE DELCEV UNIVERSITY, STIP, REPUBLIC OF NORTH MACEDONIA
16 April 2026, Stip, Republic of North Macedonia**

The Faculty of Agriculture is organizing the 5th International Meeting *Agriscience & Practice (ASP 2026)*, providing participants with the opportunity to present and discuss original scientific and practical results in various fields of agriculture.

The 5th International Meeting *Agriscience & Practice (ASP 2026)* brings together agricultural stakeholders to share their knowledge, experience, and challenges. Its main goal is to connect research and fieldwork in the agricultural sector, both nationally and beyond, giving it an international dimension.

Over the past years, we have been fully committed to building exactly these kinds of bridges—bridges between science and practice, between institutions and producers, and between experience and innovation. Moreover, we strive to build bridges that transcend borders and connect us with the region and the world.

Scientific and applied presentations will be organized into the following sections:

1. Agricultural Economics
2. Animal Sciences
3. Plant Sciences
4. Food Science and Nutrition
5. Soil Science and Environment
6. Enology

Poster presentations will also be available. In addition, in response to the needs of the agricultural sector, panel discussions will be organized, where invited speakers and panelists will have the opportunity to share their experience with meeting participants.

Dear colleagues, partners, and friends, let us once again gather in one place, united by a common idea—to bring together agricultural science and practice in order to share information, knowledge, experiences, and solutions to overcome existing challenges. The main objective of this meeting is the successful establishment of continuous and meaningful communication and collaboration among scientific, research, and practical activities in the agricultural sector at the national, regional, and international levels. We will achieve this goal, as well as our shared objectives, through the synergy we have been actively building over the past years.

Every scientific field has its significance and value within a given social context, but agricultural production holds a particularly vital place.

Our shared task is not only to improve production, but also to strengthen the importance and dignity of agriculture in society. Above all, we must inspire young people to recognize their potential right here, because faculties and universities exist first and foremost for them—the younger generation. They are our future, but also our most important connection to society.

With great joyfulness we thank you for active participation in the Meeting

Prof. Emilija Arsov, PhD
Dean of Faculty of Agriculture
&
Chair of the Organizing Committee

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ROLE OF FOREST WINDBREAK SYSTEMS ON AGRICULTURAL PRODUCTION IN OVCHE POLE REGION Jordanco Dimitriev^{1,2*}, Ljupco Mihajlov², Natalija Markova Ruzdik², Fidanka Trajkova²

¹Ministry of Agriculture, Forestry and Water Management, State Inspectorate for Hunting and Forestry, Republic of North Macedonia

²Faculty of Agriculture, Goce Delcev University, Stip, Krste Misirkov 10-A, 2000 Stip, Republic of North Macedonia

*Corresponding author: joco.dimitriev@yahoo.com

Abstract

The subject and primary objective of this study is to analyze the role of windbreaks in the protection of soil resources, the stabilization of agricultural production, and the improvement of microclimatic conditions. In this context, the agroecological effects of windbreaks on agricultural production in the Ovche Pole region are systematically examined. The research was conducted within a defined section of the Ovche Pole valley, located in the Municipality of Sveti Nikole with coordinates ranging from 21°92'27" to 21°92'81" East Longitude and from 41°87'18" to 41°88'44" North Latitude, where predominantly unfavorable agroecological conditions prevail. Data collection and analysis were carried out through precise geospatial positioning of the windbreak belts, combined with field observations and measurements using GPS devices, as well as the assessment of orthometric characteristics of the terrain. The results obtained during the 2023–2024 research period are synthesized and presented in the form of a SWOT analysis. The findings indicate a predominance of strengths and opportunities, alongside fewer identified weaknesses and a limited number of threats, highlighting the significant benefits associated with the existence, proper management, and maintenance of windbreak systems in the Ovche Pole region.

The general conclusions emphasize the substantial importance and implications of windbreak belts for agricultural production. Furthermore, the study proposes the selection of suitable forest and fruit tree species capable of ensuring the full multifunctional role of windbreaks within the Ovche Pole agroecosystem. Accordingly, their revitalization and sustainable management are strongly recommended.

Key words: *Ovche Pole, windbreaks, soil protection, agroecology, sustainable management, crop production.*