

**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**

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(ASP 2026)

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**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*
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&
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PLANT SCEINCES

RESISTANCE MANAGEMENT STRATEGIES FOR THE COLORADO POTATO BEETLE (*Leptinotarsa decemlineata*) IN POTATO PRODUCTION Biljana Kovacevik^{1*}, Sasa Mitrev¹, Emilija Arsov¹, Dusan Spasov¹, Biljana Atanasova¹, Marija Taskova Kukutanov¹, Natalija Markova Ruzdik¹

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Abstract

The colorado potato beetle (*Leptinotarsa decemlineata*) is one of the most destructive pest of potato crops, known for its remarkable ability to rapidly develop resistance to insecticides, particularly neonicotinoids such as acetamiprid. This paper focuses on resistance management strategies through an integrated approach that combines chemical and non-chemical control measures. Special emphasis is given on the rotation of insecticides with different modes of action (IRAC groups) in order to reduce selection pressure on pest populations. Recommended rotation programs include active substances from IRAC 1B, IRAC 3A, IRAC 4, IRAC 5, IRAC 6 and IRAC 28 code, such as lambda-cyhalothrin, emamectin benzoate, chlorantraniliprole, cyantraniliprole and spinosad. Furthermore, control efficacy is significantly improved when treatments are applied during early larval stages (I-II), when the insects are most susceptible. Integrated pest management (IPM), including mechanical control, crop rotation, biological agents such as *Bacillus thuringiensis*, and regular population monitoring, plays a key role in sustainable pest control. Adherence to recommended application rates and treatment only when the economic threshold is exceeded further reduces the risk of resistance development. Combining these strategies ensures effective and long-term control of the colorado potato beetle, while minimizing environmental impact and preserving insecticide efficacy.

Key words: colorado potato beetle, *Leptinotarsa decemlineata*, insecticide resistance, resistance management, IRAC groups, integrated pest management (IPM), acetamiprid, crop protection, potato production.

BOOK OF ABSTRACTS

MEETING SIDE EVENT: CARBONICA: Building a national stakeholder network for carbon farming and sustainable soil management

MEETING SIDE EVENT

CARBONICA: Building a national stakeholder network for carbon farming and sustainable soil management

ALL DAY EVENT

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