

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



**1st INTERNATIONAL MEETING
AGRISCIENCE & PRACTICE (ASP 2018)**

BOOK OF ABSTRACTS

**10th - 11th May 2018
Stip, Republic of Macedonia**

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**1st INTERNATIONAL MEETING AGRISCIENCE & PRACTICE
ASP 2018**

Organized by

**FACULTY OF AGRICULTURE
GOCE DELCEV UNIVERSITY - STIP, REPUBLIC OF MACEDONIA
10-11 May 2018, Stip, Republic of Macedonia**

In the past ten years the educational, research and applicative activities of the Faculty of Agriculture – Stip, Goce Delcev University – Stip, contributed to the development of agriculture sector in the country and broader region.

The Faculty of Agriculture organizes the 1st International Meeting Agriscience & Practice (ASP 2018), giving an opportunity to the participants for presentation and discussion of original scientific and practical results in different fields of agriculture.

The 1st International Meeting Agriscience & Practice (ASP 2018) is organized with intention to bring together all agricultural stakeholders for sharing their knowledge, experience and obstacles. One of the main aims is to link research and field work in agricultural sector in the country and broader, giving it an international dimension.

The main goal of the Meeting is to connect and promote scientific achievements and practical knowledge presented in different thematic areas.

We are pleased to welcome you at the Faculty of Agriculture and we wish you active participation in the Meeting.

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Plant protection

BOOK OF ABSTRACTS
SECTION: PLANT PROTECTION

IMPLEMENTATION OF MODERN IT TOOLS IN AGRICULTURAL PRACTICE Zoran Zdravev^{1*}, Emilija Arsov², Fidanka Trajkova³, Sasa Mitrev²

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Abstract

The modern agriculture is based on utilization of laboratory analyses and different tools for reaching high and good quality yields, with implementation of environmental friendly production practices. The Online Pesticide Database and the Online Calculator for Fertilizer Use were developed in order to facilitate and support the modern concepts of agricultural production in Republic of Macedonia. The Online Pesticide Database is Open Resource Character, providing information about diseases, pests and weeds for different crops, the pesticides for their control and the active ingredient of pesticides. Online Calculator for Fertilizer Use is created to support application of correct amounts of fertilizers. This on-line tool provides recommendations for necessary application of nitrogen, phosphorus and potassium to different crops, based on existing data on pre-crop, nutrient demand of next crop and laboratory analysis for already available nutrients in the soil. Both tools are freely available to any interested party and they are created in a manner that the data is accessible with IT tools operating on Windows, iOS or Android platform, and accordingly they are accessible even from the field. The Online Pesticide Database and Online Calculator for Fertilizer Use are created to support agricultural production in accordance with the principles and guidelines of Good Agricultural Practice (GAP) in Macedonia.

Key words: IT tools, online pesticide database, online calculator for fertilizer use, online application, pesticide, fertilizer calculator

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