

# SUMMER SCHOOL ON

## WEED MAPPING AS A TOOL IN PLANT ECOLOGY AND WEED MANAGEMENT

CZECH LIFE SCIENCE UNIVERSITY, PRAGUE, 16-21 JULY 2018

The event was supported by the European Weed Research Society (EWRS) Weed Mapping Working Group in cooperation with the **Czech University of Life Sciences Prague and the Agricultural University of Athens**.

**Participants:** 19 MSc, Ph.D. students and a limited number of professionals in weed science, agronomy, crop protection or plant ecology from 10 countries (Israel, India, Iran, Latvia, Poland, Spain, Denmark, Greece, Philippines, Czech Republic).



**Scope:** The scientists have taken knowledge and experience in implementation of classical and new tools and methods in weed mapping through theoretical courses and practical training in fields.



Practical training in the field\_ Weed identification.mp4



Practical training in new technologies.mp4



Weed maps production from the students using their field data.mp4



Training on classical methods of weed surveys.mp4

**Objectives:** Methodological training in the collection of data. Identification of weed frequency ranks. Introduction to specific statistics and geostatistical tools. Analysis of results in relation to environmental and farm data. Analysis of the spatial weed distribution. Production of weed maps. Applications in precision weed control.

**Teachers:**

Garifalia Economou - Agricultural University of Athens  
Dionissios Kalivas - Agricultural University of Athens  
Michaela Kolářová - Czech University of Life Sciences Prague  
Josef Holec - Czech University of Life Sciences Prague  
Pavel Hamouz - Czech University of Life Sciences Prague  
Milan Kroulík - Czech University of Life Sciences Prague  
Hansjoerg Kraehmer) - Former EWRS President  
Hanan Eizenberg- ARO- Volcani Center – University of Rehovot  
Ahmet Uludağ - Çanakkale Onsekiz Mart University  
Rasmus Nyholm Jørgensen - Aarhus University

**Program**

The theoretical courses in the classroom, the practical training in the field by the weed data collection and the exercise on weed maps production were carried out with success according to the program.  
<http://www.ewrs.org/doc/SUMMER%20SCHOOL%20FINAL%20PROGRAM.pdf>



The students obtained knowledge and skills on weed sampling methods in different crops as well on data collection using GIS methods.



They cooperated working and analyzing their data in 5 groups driven by mentoring teachers

The last day each group presented the results of their work on field data in Power Point and they were assessed by the teachers.





The organizing committee asked from the students to list their options and comments for the teaching program as a contribution for the improvement of the current program.

The students will have approach to the Power Point presentations of the teachers as well as to the cited literature.

They obtained the unique experience of sharing the knowledge in classical and innovated methods on weed mapping.



Furthermore, a collegial interaction was developed among them in the early stage of their scientific carrier establishing a network of communication via the Weed Mapping working Group.



They enjoyed the excellent academic environment of Czech Life Science University of Prague ) as well the beautiful historic town of Prague

