



**European  
Weed  
Research  
Society**

**«Optimizing herbicide use  
in an Integrated Weed Management  
(IWM) context».**

WORKSHOP  
PROGRAM

---

**5-7**  
**MARCH**  
2 0 1 5

## Thursday 5 March 2015

8.00 – 9.00: Registration  
9.00 – 9.30: Official Welcome

**Dr. Demosthenis Chachalis**, President of Hellenic Weed Science Society  
**Prof. George N. Skaracis**, Dean, School of Agriculture, Engineering and Environmental Sciences, Agricultural University of Athens & EPSO National Representative

9.30 – 10.00: 1<sup>st</sup> Plenary presentation. Integrated weed management: The future paradigm,  
**P. Kudsk**

10.00 – 10.30: 2<sup>nd</sup> Plenary presentation: IWM: an Industry View, **D.W. Cornes**

10.30 – 13.45: 1<sup>st</sup> session INTEGRATED WEED MANAGEMENT  
(Moderators: P. Kudsk and I. Travlos)

10.30 – 11.00: Keynote presentation: Optimization of herbicide use: Results from pilot field projects in major crops in Greece, **D. Chachalis**

11.00 – 11.15: Contribution of crop rotation to herbicide weed control in maize, **M. Simic**,  
I. Spasojevic, V. Dragicevic & M. Brankov

### 11.15 – 11.30: Coffee Break

11.30 – 11.45: New Minor Crops in Greece-New IWM challenges, **P.C. Lolos**

11.45 – 12.00: Control of black grass (*Alopecurus myosuroides* Huds.) by integrated crop management, **A. TS Nilsson** & H. Hallqvist

12.00 – 12.15: Integrated weed control by inter-row hoeing and intra-row herbicide treatment in annual crops, A. Lundkvist, **A. TS Nilsson**, T. Verwijst, P.A. Algerbo, M. Gilbertsson, P. Ståhl, D. Hansson, A. Andersson & M. Stenberg

12.15 – 12.30: Integrated weed management tools in maize production: agronomic efficacy, herbicide use reduction and economic sustainability **V.P. Vasileiadis**, S. Otto, W. van Dijk, G. Urek, R. Leskovšek, A. Verschwele, L. Furlan & M. Sattin

12.30 – 12.45: Effect of site-specific weed management on crop yield and weed populations,  
**P. Hamouz**

12.45 – 13.00: The suppression of weeds by cover crops grown as living mulches in perennial fruit crops, **M. Tzortzi**, H. Roberts, J. Atwood & L.V. Tatnell

13.00 – 13.30: New technologies in rice cultivation, **C. Dramalis**, A. Kalaitzidis, D. Katsantonis & S. Vizantinopoulos

13.30 – 13.45: Discussion

### 13.45 – 14.45. Break

14.45 – 15.30: Poster session (poster titles are given at the end of the program).

15.30 – 17.30: 2<sup>nd</sup> session HERBICIDE RESISTANCE  
(Moderators : R. De Prado and D. Chachalis)

15.30 – 16.00: Keynote presentation: Integrated Weed Management as a Tool to Suppress Herbicide Resistance in Weeds, **K. Hamouzova** & J. Soukup

- 16.00 – 16.15: Indications of evolving multiple-resistance to glyphosate, glufosinate and oxyfluorfen in the genus *Lolium*, P.T. Fernández-Moreno, R. Alcántara-de la Cruz, J. de Portugal, I. Calha, J. Costa, I. Brants & **R. De Prado**
- 16.15 – 16.30: Glyphosate resistant populations of *Conyza* spp. in Greece: current situation, fitness and management, I. Tabaxi, **I.S. Travlos**, C. Astrakis, P.J. Kanatas, E. Tani & D. Chachalis
- 16.30 – 16.45: Epigenetic mechanisms and regulation of genes involved in glyphosate resistance in *Conyza canadensis*, **T. Margaritopoulou**, E. Tani, I.S. Travlos & D. Chachalis
- 16.45 – 17.00: Assessment of resistance to glyphosate of *Epilobium* spp. and *Conyza bonariensis* in an intensive olive grove, **J. Portugal**, I.M. Calha & R. De Prado
- 17.00 – 17.15: Natural tolerance of *Avena sterilis* to glyphosate, **P.T. Fernández-Moreno**, R. Alcántara-de la Cruz, J. Portugal & R. De Prado
- 17.15 – 17.30: Discussion

----- END OF 1<sup>ST</sup> DAY -----

**20.00 – 22.00 Wine Reception (offered by the workshop).**

## ----- Friday 6 March 2015 -----

**8.00 – 9.00: Registration**

**9.00 – 10.15: 2<sup>nd</sup> session HERBICIDE RESISTANCE (continue)  
(Moderators : J. Soukup and M. Simic).**

- 9.00 – 9.15: Characterization of resistance to glyphosate *Bidens pilosa* L. harvested in citrus groves in Veracruz, Mexico, **R. Alcántara-de la Cruz**, J.M. Arjona-López, P.T. Fernández-Moreno, J.A. Domínguez-Valenzuela & R. De Prado
- 9.15 – 9.30: Cross-resistance to ACCase-inhibitors in *Eleusine indica*. Reactive control. P.T. Fernández-Moreno, R. Alcántara-de la Cruz, J. de Portugal, M.D. Osuna-Ruiz & **R. De Prado**
- 9.30 – 9.45: Analysis of genetic differences in R- and S- sterile oat (*Avena sterilis* L.) populations in Greece, **A. Xanthopoulou**, I. Ganopoulos, P. Madesis, I.S. Travlos & D. Chachalis
- 9.45 – 10.00: Evaluation of resistance to imidazolinone herbicides in sunflower hybrids, A. Kapazoglou, **O. Roussou**, A. Marouli, P.J. Terzopoulos & P.J. Bebeli

10.00 – 10.15: Discussion

**10.15 – 10.30: Coffee Break.**

**10.30 – 12.00: 3<sup>rd</sup> Session NON CHEMICAL METHODS / INVASIVE WEEDS  
(Moderators: M. Riemens and P. Lolas).**

- 10.30 – 11.00: Keynote presentation. Non chemical weed control methods and IWM, **M.M. Riemens**
- 11.00 – 11.15: Biological weed management in Assam, **A. Devee**, M. Borah, D.K. Saikia, P. Dutta & K.C. Pujari
- 11.15 – 11.30: A first approach of chemical control of silverleaf nightshade (*Solanum elaeagnifolium*) with the herbicide tembotrione, **T.K. Gitsopoulos**, C.A. Damalas & I. Georgoulas

11.30 – 11.45: *De novo* transcriptome analysis of the weed *Solanum elaeagnifolium* to elucidate the molecular pathways that contribute to stress response, A. **Tsaballa**, A.M. Makris & A. Argiriou

11.45 – 12.00: Discussion

----- END OF MORNING SESSION -----

**12.00 – 14.00: Visit to Heraclion Archeological Museum (offered by the workshop)**

**14.00 – 15.00: Break**

**15.00 – 17.15: 4<sup>th</sup> Session IWM AND HERBICIDE USE: OPTIMIZING PERFORMANCE AND MINIMIZING NON-TARGET EFFECTS / ENVIRONMENTAL ISSUES (Moderators: T. Gitsopoulos and C. Damalas).**

15.00 – 15.15: Inspection of spraying equipment, **M. Vlachogiannis**

15.15 – 15.30: Safe use of herbicides in maize seed crop, **M. Brankov**, M. Simic, V. Dragicevic & I. Spasojevic

15.30 – 15.45: Four years validation of decision support optimising herbicide dose in cereals under Spanish conditions, J.M. Montull, M. Soenderskov, P. Rydahl, O.M. Boejer & **A. Taberner**

15.45 – 16.00: Reduced rates of herbicides to control *Galium aparine*, *Sinapis arvensis* and *Avena sterilis* in late-sown durum wheat (*Triticum durum* L.), **A. Karkanis**, D. Bilalis, A. Efthimiadou, I.S. Travlos, D. Chachalis & N. Katsenios

16.00 – 16.15: Effects of glyphosate application on arbuscular mycorrhizal fungi of the succeeding crop, **A. Gavalaki**, N. Koustas, A. Antoniadis, I. Pantelis, I.S. Travlos, D.J. Bilalis, Y. Papatheohari, I. Dede & M. Druille

16.15 – 16.30: Assessment of pollution levels and toxicity of environmental samples collected from the monitoring network developed in the frame of EcoPest LIFE+ project, **K. Kyriakopoulou**, E. Karasali, V. Kati, P. Sarli & K. Machera

16.30 – 16.45: Exploring the beneficial role of weeds in olive groves for biodiversity and soil quality, **G. Michalopoulos**, SAGE10 team & OLIVECLIMA team

16.45 – 17.00: The development of an algorithm for identification and monitoring of highly vulnerable zones for pesticides contamination to ground water. **S. Vizantinopoulos**, G. Arampatzis, A. Ilias, S.I. Vrouchakis, P. Dalambakis, S. Stathaki, E. Hatzigiannakis & A. Panagopoulos

**17.00 – 18.00: INTEGRATED WEED MANAGEMENT: WHICH ARE THE KEY RESEARCH QUESTIONS WE SHOULD ADDRESS? Conclusion Discussion of the Workshop**

----- END OF 2<sup>nd</sup> DAY -----

Free night.

## Saturday 7 March 2015

Archeological and Field Trip (offered by the workshop).

**9.00 – 16.00: Knossos visit**

([http://odysseus.culture.gr/h/3/eh351.jsp?obj\\_id=236](http://odysseus.culture.gr/h/3/eh351.jsp?obj_id=236)),

**Co-operative of Archanes**

([www.archanescoop.gr/en/](http://www.archanescoop.gr/en/))

**Lunch**

**Return to Heraclion**

### POSTER PRESENTATIONS

**Morphological and molecular characterization of 15 *Echinochloa* biotypes based on the intergenic spacer of *psbK-psbI* genes of cpDNA**

**G. Tsoktouridis**, K. Dhima, I. Vasilakoglou & T.K. Gitsopoulos

**Benzobicyclon: a new herbicide for late watergrass (*Echinochloa phyllopogon*) control under flooded conditions**

**T.K. Gitsopoulos**, C.A. Damalas & I. Georgoulas

**Mechanism of resistance to PPO and ALS inhibitors in wild poinsettia (*Euphorbia heterophylla* L.) biotypes from Brazil**

M.M. Trezzi, **V. Pacheco**, R. Alcántara de La Cruz, P.T. Fernandez-Moreno, Jr.F. Pagnoncelli, E. Alcántara & R. De Prado

**Multiple-resistance to oxyfluorfen in glyphosate resistant grass weed species**

P.T. Fernández-Moreno, **R. Alcántara-de la Cruz**, M.M. Trezzi & R. De Prado

**Proactive management of *Eleusine indica* treated with glyphosate**

**P.T. Fernández-Moreno**, R. Alcántara-de la Cruz & R. De Prado

**Screening maize lines for resistance to nicosulfuron**

**M.N. Mezili**, I.S. Livanios, P.J. Terzopoulos & P.J. Bebeli

**Metabolism of imazamox in *Triticum aestivum***

A.M. Rojano-Delgado, F. Jiménez & **R. De Prado**

**Project ERMES: Development of a reliable rice information system on the basis of remote sensing, in-situ data and crop modelling**

D. Katsantonis, C. Dramalis, A. Kalaitzidis, I. Gitas, C. Karydas & **S. Vizantinopoulos**

**Multiple resistance to imazamox and glufosinate in winter wheat**

A.M. Rojano-Delgado, A. Ortega & **R. De Prado**

**Selectivity of bentazon and imazamox in faba bean (*Vicia faba*)**

**C.A. Damalas**, S.D. Koutroubas, T.K. Gitsopoulos & S. Fotiadis

**Field horsetail (*Equisetum arvense* L.) and its effects on chickpea**

**N. Koustas**, I.S. Travlos, D.J. Bilalis, P. Papastylanou, D. Papadimitriou, D. Douma, D. Chachalis & A. Karkanis

**Screening for resistance to nicosulfuron in maize lines using in planta bioassays**

**M.N. Mezili**, I.S. Livanios, P.J. Terzopoulos & P.J. Bebeli

GOLD SPONSORS



Bayer CropScience



BRONZE SPONSORS



ΥΠΟΥΡΓΕΙΟ ΑΓΡΟΤΙΚΗΣ ΑΝΑΠΤΥΞΗΣ ΚΑΙ ΤΡΟΦΙΜΩΝ  
ΕΛΛΗΝΙΚΟΣ ΓΕΩΡΓΙΚΟΣ ΟΡΓΑΝΙΣΜΟΣ "ΔΗΜΗΤΡΑ"



Dow AgroSciences



SIPCAM



SCIENTACT ΑΕ



ΕΝΩΣΗ ΠΕΖΙΝΙΚΗΣ  
ΑΠΟ ΤΟ 1933

Σ.Υ.Π.Α. Ο.Ε.  
Συμβουλευτικές Υπηρεσίες Ποιότητας & Ανάπτυξης

Media Sponsor



AgroNews.gr ΕΒΔΟΜΑΔΙΑ ΕΠΙΧΕΙΡΙΑ ΑΓΡΟΝ & ΟΙΚΟΝΟΜΙΑΣ ΤΗΣ ΥΓΙΑΡΟΥ



Ελληνική  
Ζιζανιολογική  
Εταιρεία