



**European  
Weed  
Research  
Society**

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

WORKSHOP  
PROGRAM

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**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. Lolias**

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. **Lunch break (offered by the workshop).**

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: Lunch break (offered by the workshop).**

**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)),

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**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

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