



# European Weed Research Society

## 2<sup>nd</sup> CIRCULAR

JOINT WORKSHOP OF THE EWRS WORKING GROUP:  
**PHYSICAL AND CULTURAL WEED CONTROL**  
and  
**CROP-WEED INTERACTIONS**

*Physical and cultural weed control tools  
as moderators of crop weed interactions*

**Nyon, Switzerland  
2 – 5 April 2017**

Dear Colleague,

In this second and final circular, we inform about some important issues concerning our workshop. The meeting is taking place in the French part of Switzerland.

### **Venue**

The Workshop will take place at Agroscope Changins, located very close to Nyon, Switzerland (<https://www.agroscope.admin.ch/agroscope/en/home/about-us/locations-contacts/changins.html> and <https://www.agroscope.admin.ch/agroscope/en/home.html>).

### **Accommodations**

Participants must arrange accommodations on their own in the city of Nyon.

Here is a link to a map of the hotels in Nyon:

<https://map.search.ch/d/mi5mwe5mt?pos=507894,137672&z=512&poi=hotel>

Accommodations with a special price for a limited number of participants has been arranged at two hotels. These prices include breakfast:

**Hotel 1: 16ième siècle**, 19 rooms: <http://16eme.com/>

6 rooms for 80 CHF/night (toilet and shower outside of the room)

2 rooms for 100 CHF/night (toilet in the room, shower outside)

9 rooms for 129 CHF/night (with bathroom in the room)

To book a room at these special prices, you must send an email to: [contact@16eme.com](mailto:contact@16eme.com)

In the body of the message, enter CODE EWRS, followed by specifying which type of room you would like (from the list above, along with the price, including breakfast) and then write your full name, email, number of persons, number of rooms, date of arrival and date of departure, and any requirements. Put you full contact information at the end of the email (address, phone number, country, etc).

**Hotel 2: hotel des alpes**, 25 rooms: <https://www.alpes-nyon.ch/site/en/>

25 rooms for 140 CHF/night.

To book a room at this special price, you must send an email to: [info@alpes-nyon.ch](mailto:info@alpes-nyon.ch)

In the body of the message, enter CODE EWRS (room for 140 CHF/night, including breakfast) followed by your full name, email, number of persons, number of rooms, date of arrival and date of departure, and any requirements. Put you full contact information at the end of the email (address, phone number, country, etc).

## Costs for participation

The registration fee will cover: Welcome drink and light meal on Sunday evening, lunches and morning and afternoon coffee during the workshop, dinner on Monday, meeting booklet, and the excursion on Tuesday.

## Some important practical details

### Transport to Nyon, Switzerland

Nyon is approximately 30 kilometres from Genève (Geneva).

If you arrive by plane in Geneva: There is a train station within the airport. From there, trains go directly to Nyon several times per hour. You can find information on timetables on the following homepage: <http://www.sbb.ch/en/home.html>. The train ride is approximately 23 minutes.

To purchase your ticket, you have select to go from "Genève-Aéroport" to "Nyon".

Tickets can be bought at the airport either at ticket machines or in the CFF (train) shop.

When you arrive in Nyon, hotels are all within walking distance (less then 10 minutes) from the train station.

### Nyon

You can find some information about Nyon at <http://www.nyon-tourisme.ch/en/index.cfm>.

Here are some links to maps of Nyon: [http://www.nyon-tourisme.ch/en/the-region/situation\\_and\\_maps](http://www.nyon-tourisme.ch/en/the-region/situation_and_maps) and <https://map.search.ch/Nyon?pos=507438,137547&z=512>.

## Transport to Agroscope

### *Public transport*

You can take bus n°804 in front of the train station. Please find information on the timetable on the following homepage. <http://fahrplan.sbb.ch/bin/query.exe/en>. You have to go from "Nyon" to "Nyon rte de Saint-Cergue". In the morning, buses are leaving at 7:28, 7:43, 7:58, 8:13. The bus ride takes 8 minutes. Then you have to walk 5 to 10 minutes to the institute. Here is the link to a map with explanations, bus stops and the short way to walk from the bus stop to the institute: <https://map.search.ch/d/giwmtymz?pos=507610,138970>

### *Walking*

Walking is easy. On foot, Agroscope is approximately 20 minutes away from the train station. Here you can find the way if you want to walk (departure from the station): <https://map.search.ch/d/mi5mwe5mt?pos=507984,138070&z=256>

## Weather and clothes

Boots might be useful for the excursion. It would also be good to have rain clothes or an umbrella just in case. You can see the current weather for Nyon at: <http://meteonews.ch/en/Weather/G2659422/Nyon> . Yearly weather information can be found at: <http://meteonews.ch/en/Climate/M06705000/Nyon>.

## Currency, electricity

Switzerland currency is the Swiss franc (officially CHF, often Fr in shops, sometimes SFr). It is preferable to pay in CHF since any other currencies can be refused. All major credit cards are accepted.

Electricity is 230 Volts AC, 50 cycles (continental European standard). Switzerland has wall outlets that are relatively unique, they are sockets Type J (3 pins, grounded, 10 A, 220 – 240 V, socket compatible with plug types C & J). See <http://www.worldstandards.eu/electricity/plugs-and-sockets/> for more details. Some more details are also available at: <https://travelguide.all-about-switzerland.info/basic-swiss-tourist-information.html>

## **Scientific programme**

### **Sunday 2 April**

19.00 Welcome drink in Nyon at hotel (16ième siècle)

### **Monday 3 April**

09.00 Registration & Welcome coffee/tea

09.30 Opening address

Marleen Riemens / Theo Verwijst

Judith Wirth *et al*, local organising committee

## Session 1 – Physical and cultural control, practical experiences

*Chair: Marleen Riemens*

- 09.50 The combined control effect of primary tillage and cultivation in soybean on *Sonchus arvensis* and *Cirsium arvense*  
*Leblanc, Maryse L. and M. Lefebvre (CAN)*
- 10.10 Using vertical discs to fragment *Elymus repens* rhizomes shifts the competitive balance towards Italian ryegrass- white clover companion crops  
*Ringselle, Björn, E. Berholtz., E. Magnuski, L. Brandsæter, K. Mangerud, and G. Bergkvist (SWE)*
- 10.40 Effect of biodegradable mulches on pepper production and purple nutsedge control (*Cyperus rotundus* L.)  
*Mari, Ana Isabel, G. Pardo, J. Aibar, and A. Cirujeda (ESP)*
- 11.00 Coffee break
- 11.20 Practical experiences from physical and cultural weed control in maize  
*Huiting, Hilvert Freek, M.M. Riemens, and R.Y. van der Weide (NLD)*
- 11.40 Intra-row weeds surviving inter-row cultivation in organic spring cereals - do they harm the crop and how can they be suppressed?  
*Bo Melander (DNK)*
- 12.00 Impact of wetting agents, time of day and periodic energy dosing strategy on the efficacy of hot water for weed control  
*De Cauwer, Benny, A. De Keyser, N. Biesemans, S. Claerhout, and D. Reheul (BEL)*
- 12.20 Lunch

## Session 2 – Physical and cultural tools as moderators of crop weed interactions

*Chair: Theo Verwijst*

- 13.30 Does curative control level influence the effectiveness of cultural weed control?  
*Bastiaans, Lammert and G. Theisen (NLD)*
- 13.50 Sowing time as a measure to regulate host plant-parasite interactions in rain-fed rice production systems  
*Tippe, Dennis E., A. van Ast, J. Rodenburg, J.M. Kayeke, N. Anten, L. Bastiaans (NLD)*
- 14.10 Competitive interaction between weedy rice and rice as a function of seeding rate and cultivar  
*Mennan, Hüsrev, M. Sahin, D. Boylu, O. Guzel, and E. Altop-Kaya (TUR)*
- 14.30 Combining cultural and mechanical weed control in reduced tillage vegetables  
*Lowry, C.L., S. Hitchcock Tilton, and D.C. Brainard (USA)*
- 14.50 Discussion

### Session 3 – Poster session

15.00 Presentation of posters by *Marleen Riemens*

15.10 Coffee break and poster session

*Convolvulus arvensis* and *Xanthium strumarium* control using fungal herbicides  
*Abdessemed, Nesma, N. Talbi, A.Y. Bahet, and N. Zermane (DZA)*

Bioherbicide Potential of Essential Oils of *Thymus fontanesii* and *Eucalyptus citriodora* from Algeria

*Benchaa, Sara, N. Zermane, and H. Abdelkrim (DZA)*

Reducing in-row weed density in no-tillage systems through a modification of a no-till seeder.

*Theisen, Giovanni and L. Bastiaans (BRA)*

Study of weeds in Citrus plantations of the Oranais phytogeographic sector: botanical, ecological and agronomic aspects

*Karima, Hanitet and M. Zoheir (DZA)*

Tillage and cover crop effects on weed management and community changes in organic tomato cropping system

*Cehade, L. Abou, D. Antichi, L. Martelloni, A. Peruzzi, M. Mazzoncini and S. Carlesi (ITA)*

Influence of integrated weed management on crop-weed interaction in direct seeded rice

*Saravanane, Pasoubady and R. Poonguzhalan (IND)*

Evaluation of integrated management of *Cynanchum acutum* L. (swallow-wort) in fallow fields of Sugarcane.

*Abdollahi Lorestani, Sasan, B. Karimi, S. R. Ahmadpour, and A. Paknazar (IRN)*

Using free range pigs to reduce *Cyperus esculentus* infestation in fields in Switzerland: Encountered difficulties and findings from 3 field trials

*Keller, Martina and R. Total (CHE)*

Using steam to eradicate *Cyperus esculentus* infestations in vegetable fields in Switzerland

*Keller, Martine, L. Collet, and R. Total (CHE)*

Spring cereal variety mixtures and their relevance for weed suppression in agroecological conditions of Latvia

*Piliksere, Dace, and L. Zariņa (LVA)*

### Session 4 Discussion rounds

*Chairs: Verwijst / Riemens*

15.30 Discussion rounds

17.30 End of the Discussion rounds

19.00 Dinner in Nyon (included in your registration fees)

## **Tuesday 4 April**

### **Excursion**

8.00 Departure from Agroscope. Lunch at the first stop.

Evening: Dinner at a local place (not included in your registration fees)

## **Wednesday 5 April**

### **Session 5 – Understanding trade off mechanical weed control and crop damage**

*Chair: Theo Verwijst*

09.00 “Harrowing interpreter” – a learning tool to facilitate a deeper understanding of post- emergence mechanical weed control  
*Jesper Rasmussen (DNK)*

09.20 Improving selective potential of mechanical weeders through cultivar choice  
*Hitchcock Tilton, Sam and D.C. Brainard (USA)*

09.40 Automated Weed/Crop Differentiation and Weed Control in Vegetable Crops  
*Fennimore, Steven A. and D.C. Slaughter (USA)*

10.00 Discussion

10.10 Coffee break

### **Session 6 – Weed suppression**

*Chair: Theo Verwijst*

10.35 Suppressing *Ambrosia artemisiifolia* by undersown crops  
*Sölter, U. and A. Verschwele (DEU)*

10.45 Crop-weed interactions in short rotation coppice willow  
*Welc, Monika, A. Lundkvist, and T. Verwijst (SWE)*

11.05 Buckwheat root exudation in presence of redroot pigweed  
*Gfeller, Aurélie and Judith Wirth (CHE)*

11.25 Influence of residue mulching on ecological weed growth in Indian spinach (*Basella alba* L.) in a humid tropical environment  
*Smith, Muphtha A.K. (NGA)*

11.45 Discussion and end of workshop

12.00 Lunch

## Posters

Those participants displaying a poster must send 1-2 PowerPoint slides to Marleen Riemens [marleen.riemens@wur.nl](mailto:marleen.riemens@wur.nl) BEFORE March 30<sup>th</sup> 2017. Your posters will only be introduced, if we have received these slides in time.

The slide MUST contain:

- Poster title
- Name(s) of authors incl. country codes. If more than two authors use: et al.
- Objective of the work
- Main results and conclusions

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## Organising committee

### *Scientific organisers*

- Marleen Riemens, Wageningen University and Research. Wageningen Plant Research. Applied Plant Research group, The Netherlands
- Theo Verwijst, Department of Crop Production Ecology, Swedish University of Agricultural Sciences, Sweden

### *Local organisers*

- Judith Wirth, Responsable du groupe de Recherche Malherbologie grandes cultures et viticulture, Agroscope, Institut des sciences en production végétale IPV, Nyon, Switzerland