



# European Weed Research Society

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

### 9<sup>TH</sup> WORKSHOP OF THE EWRS WORKING GROUP: **PHYSICAL AND CULTURAL WEED CONTROL**

**Samsun, Turkey**  
**28 – 30 March 2011**

Dear Colleague,

In this second circular you will find:

- Finalised Scientific Programme
- Detailed information on payment, venue, accommodation, and travel
- Instructions on preparation of papers for the Proceedings
- Provisional list of participants
- Information on presentation facilities
- Registration form

**Overview – this programme includes:**

- 6 plenary sessions with 22 oral presentations
- 2 poster sessions with 43 posters
- 2 round table discussion
- One excursion including dinner
- Dinners and social activities

We look forward to meet you in Samsun, Turkey.

*Bo Melander*  
*Hüsrev Mennan*

## **Workshop programme - Overview**

### **Sunday 27 March**

- 17.00 Afternoon and Evening: Registration
- 20.00 Welcome drink at Omtel Otel

### **Monday 28 March**

- 09.00 Registration
- 09.30 Opening address
- 09.50 Session 1 – Thermal weed control (3 presentations)
- 11.00 Coffee
- 11.30 Session 2 – Cover crops / mulches / intercropping (4 presentations)
- 13.00 Lunch
- 14.00 Session 3 – Poster session incl. coffee (19 posters)
- 16.00 Session 4 – Miscellaneous (5 presentations)
- 18.15 End of first day's scientific programme

### **Tuesday 29 March**

- 09.00 Session 5 – Mechanical weed control (6 presentations)
- 11.00 Discussion
- 11.10 Session 6 – Round-table discussions incl. coffee (2 round-tables)
- 13.00 Lunch
- 14.00 Excursion
- 20.00 Dinner at a local place

### **Wednesday 30 March**

- 09.00 Session 7 – Report from round table discussion
- 09.30 Session 8 – Poster session (23 posters)
- 11.30 Session 9 – Weed control in non-agricultural areas (4 presentations)
- 13.00 Working group affairs
- 13.15 Lunch and end of workshop

# Full Programme – EWRS Workshop, Samsun, 2011

## ***Sunday 27 March***

- 17.00 Registration
- 20.00 Welcome drink – we will inform you in due time where it will be held

## ***Monday 28 March – moderator Daniel Cloutier (CAN)***

- 09.00 Registration
- 09.30 Opening address *Bo Melander*, coordinator and scientific organiser
- 09.35 General information about organic agriculture and physical and cultural weed control in Turkey, *Hüsrev Mennan (TUR)*

### **Session 1 – Thermal weed control**

- 09.50 Can image analysis be a tool to measure changes in vegetation cover after flame treatments?, *Anne Merete Rask (DNK)*
- 10.10 Effect of short duration exposure to high temperatures on weed seed germination, *Francesco Vidotto (ITA)*
- 10.30 Time of day impacts the level of weed control and crop tolerance to propane flaming, *Stevan Knezevic (USA)*
- 10.50 General discussion
- 11.00 Coffee

### **Session 2 – Cover crops / mulches / intercropping**

- 11.30 The use of cover crops in weed management in organic farming, *Eliud Mutitu (HUN)*
- 11.50 Crop residues; an effective tool for improving growth of wheat and suppression of some associated weeds, *Mahmoud Hozayn (EGY)*
- 12.10 Effect of polyethylene mulch and plant density on weed control and water productivity, *Sepideh Hatami (IRN)*
- 12.30 Mulch textile; A physical control method for weeds and parasitic plants in Turkey, *Sibel Uygur (TUR)*
- 12.50 Discussion
- 13.00 Lunch

### **Session 3 – Poster session incl. coffee (20 posters)**

- 14.00 Introduction to posters by section chairs  
Posters 1 – 13 introduced by *Lammert Bastians (NLD)*  
Posters 14 – 20 introduced by *Michele Raffaelli (ITA)*
- 14.30 Poster presentations

### **Session 4 - Miscellaneous**

- 16.00 What is the basis of early vigour; being an important trait of weed competitiveness in rice, *Lammert Bastians (NLD)*
- 16.20 Corn and soybean architecture by competition with redroot pigweed (*Amaranthus retroflexus* L.) and jimson weed (*Datura stramonium* L.) in intercropping system, *Mohammad Rezvani (IRN)*
- 16.40 Economics of weed control and maize-mungbean intercropping, *Khan Marwat (PAK)*
- 17.00 The phytotoxic properties of aromatic & medicinal plants. A challenge for physical weed control, *Garifalia Economou (GRC)*
- 17.20 Allelopathic studies in Cukurova region, Turkey, *Nezihi Uygur (TUR)*
- 17.40 Highlights from recent research in physical and cultural weed control at Aarhus University, *Bo Melander (DNK)*
- 18.00 Discussion
- 18:15 End of first day's scientific programme
- 19:30 Dinner at seaside

## ***Tuesday 29 March – moderator Hüsrev Mennan (TUR)***

### **Session 5 – Mechanical weed control**

- 09.00 Control of perennial weeds by mechanical methods and anaerobic soil disinfection, *Hilfred Huiting (NLD)*
- 09.20 Using ridging to control ragweed in organically produced soybean, *Maryse Leblanc (CAN)*
- 09.40 Update on new innovations of intra-row weeders, *Pieter Bleeker (NLD)*
- 10.00 Less intra-row weeds - experiences with a punch planter and a cycloid hoe based on GPS, *Jesper Rasmussen (DNK)*
- 10.20 Pro's and cons of reduced tillage in maize on weeds, *Rommie v. Weide (NLD)*
- 10.40 From key research concepts in post-emergence weed harrowing to an automatic adjustment of the intensity, *Victor Rueda (DEU)*
- 11.00 Discussion

### **Session 6 – Round-table discussions incl. coffee**

- 11.10 2 round tables
- 1) Automation in crop and weed assessments – what does it mean to mechanical weed control?, lead by *Victor Rueda (DEU)* & *Jesper Rasmussen (DNK)*
  - 2) Weed control in vegetables, lead by *Johan Ascard (SWE)*
- 13.00 Lunch

### **Excursion**

- 14.00 Departure
- Afternoon: Visit to different sites (Black Sea Agriculture Research Institute, a hazelnut processing factory and an organic production village)
- Evening: Dinner at a famous sea food restaurant accompanied by Turkish music

## ***Wednesday 30 March – moderator Bo Melander (DNK)***

### **Session 7 – Report from round table discussions**

- 9.00 Automation in crop and weed assessments – what does it mean to mechanical weed control?, lead by *Victor Rueda & Jesper Rasmussen (DNK)*
- 9.15 Weed control in vegetables, lead by *Johan Ascard (SWE)*

### **Session 8 – Poster session incl. coffee (24 posters)**

- 9.30 Introduction to posters  
Posters 21 – 30 introduced by *Anne Légère (CAN)*  
Posters 31 – 43 introduced by *Paolo Bàrberi (ITA)*
- 10.00 Poster presentations incl. coffee

### **Session 9 – Weed control in non-agricultural areas**

- 11.30 Maintenance of railway embankments - how to use the Yara N-sensor for prognosis of weed control measures, *Fredrik Fogelberg (SWE)*
- 11.50 Sustainable turf and weed management within a conversion of a cool-season turf to Bermudagrass hybrid (*Cynodon dactylon* (L.) Pers x *transvaalensis* Burt-Davy), *Marco Fontanelli (ITA)*
- 12.10 Weed inhibitory effect of different paving constructions, *Benny Cauwer (BEL)*
- 12.30 Status of non-chemical weed control methods in Canadian municipalities, *Mario Lanthier (CAN)*
- 12.50 Discussion
- 13.00 Concluding remarks and working group affairs, *Bo Melander (DNK)*, *Hüsrev Mennan (TUR)*
- 13.15 Lunch and end of workshop

## POSTERS

### Section 1. Chair: *Lammert Bastians (NLD) (lammert.bastiaans@wur.nl)*

- 1 Effect of row spacing; nitrogen amount and different densities of velvet leaf (*Abutilon theophrasti* L.) on sesame (*Sesamum indicum* L.), *Abolfazl Faraji (IRN)*
- 2 Effect of nitrogen on vegetative growth parameters of sesame (*Sesamum indicum* L.) in competition with velvet leaf (*Abutilon theophrasti* L.), *Abolfazl Faraji (IRN)*
- 3 Estimation of cereal varieties for competitiveness against weeds, *Dace Piliksere (LVA)*
- 4 Turnip weed (*Rapistrum rugosum*) competition and its economic threshold on the canola (*Brassica napus* L.), *Esmail Golchin (IRN)*
- 5 Determination the most important traits about yield and competition with weeds in Rice cultivars, *Hamid Salehian (IRN)*
- 6 Determination of critical period of weeds in potato areas in Van province, *Ilhan Kaya (TUR)*
- 7 Competitive ability of corn and associated weeds *Xanthium strumarium* and *Datura stramonium* for light, *Hassan Karimmojeni (IRN)*
- 8 Growth parameters enhancing the competitive ability of corn (*Zea mays* L.) against weeds of common cocklebur (*Xanthium strumarium*) and jimsonweed (*Datura stramonium*), *Mohammad Mahdi Majidi (IRN)*
- 9 Investigation of row spacing effect on competitive ability of canola (*Brassica napus*) in competition to wild mustard (*Sinapis arvensis*), *Niloofar Salamati (IRN)*
- 10 Influence of Degree Infestation with *Echinochloa crus-galli* Species on Crop Production in Corn, *Teodor Rusu (ROU)*
- 11 Management of Egyptian Broomrape (*Phelipanche aegyptiaca*) by some fertilizers in Tomato (*Solanum lycopersicum* L.), *Sirwan Babaei (IRN)*
- 12 Increasing the ability of crops to suppress weeds; through either enhancing crop tolerance or crop interference to weeds, *Mohammad Rezvani (IRN)*
13. Effect of row spacing and sowing density on weeds and yield of Canola (*Brassica napus* L.), *Sepideh Hatami (IRN)*

**Section 2.** Chair: *Michele Raffaelli (ITA) (mraffaelli@agr.unipi.it)*

- 14 Cost comparison between soil steaming and conventional methods for weed control, *Francesco Vidotto (ITA)*
- 15 Broadcast flaming in warm-season turfgrasses, *Marco Fontanelli (ITA)*
- 16 Effects of soil solarization and cover crops on weed density and biomass, *Musa Arabkhani Nobahar (PAK)*
- 17 Weed control with flaming and cultivation in maize, *Stevan Knezevic (USA)*
- 18 Effects of Soil Tillage Systems on Seed Distribution; Seedling Emergence and Surviving of (*Centaurea tchihatcheffii* Fisch. & Mey.); An Endangered Annual Plant, *Ahmet Tansel Serim (TUR)*
- 19 Stale Seedbed Techniques for Corn Production in Samsun - Turkey, *Dogan Isik (TUR)*
- 20 Soil solarisation: environmental weed control in nurseries and vegetable crops through soil heating, *Muhammad Khan (PAK)*

**Section 3.** Chair: *Anne Légère (CAN) (anne.legere@agr.gc.ca)*

- 21 Weed management in organic and herbicide-free systems under conservation tillage: the ultimate challenge?, *Anne Légère (CAN)*
- 22 Cereal yield components as a measure of crop rotation benefits: a link with weed competition?, *Anne Légère (CAN)*
- 23 Crop yield and weed suppression in three different vegetable management systems in Central Italy, *Daniele Antichi (ITA)*
- 24 Impacts of different crop management systems on arable weed flora, *Dace Piliksere (LVA)*
- 25 The determination of weed species and investigation of alternative management methods in conventional and organic vineyards of the aegean region of Turkey, *Koray Kacan (TUR)*
- 26 Research on using cover crop to control problem weeds in apple orchards in southern Marmara region, *Mine Rusen (TUR)*
- 27 The effect of some trap crops on broomrape (*Orobancha aegyptiaca*) damage reduction in Tomato (*Solanum lycopersicum*), *Sirwan Babaei (IRN)*
- 28 Response of maize to weed control and different combinations of macro nutrients, *Farhatullah (PAK)*

- 29 Chlorsulfuron and trifluralin-resistant *Sinapis arvensis* L. Mutants Show Vigorous Germination Potential, *Muhamet Topuz (TUR)*
- 30 Design, Construction and Evaluation of Two Novel Cultivation Tools. *Glenn Jason Evans (USA)*

**Section 4.** Chair: *Paolo Bàrberi (ITA) (barberi@sssup.it)*

- 31 Control of witchweed *Striga hermonthica* in Kenya by intercropping with *Desmodium spp.*, *Martha Okumu (KEN)*
- 32 Redroot Pigweed (*Amaranthus retroflexus* L.) and Jimsonweed (*Datura stramonium* L.) growth indices reaction to corn (*Zea mays* L.) and soybean (*Glycine max* L.) intercropping, *Mohammad Rezvani (IRN)*
- 33 Corn and Soybean intercropping advantages in competition with redroot pigweed and jimsonweed, *Mohammad Rezvani (IRN)*
- 34 Integrating preventive and curative non-chemical weed control strategies on concrete block pavements, *Benny De Cauwer (BEL)*
- 35 Allelopathy; Effect of *Juglans nigra* L. and *Datura stramonium* L. on *Cyperus rotundus* L. and *Cynodon dactylon* L. Pers., *Ayşe Yazlık (TUR)*
- 36 Estimation of seed production by canola (*Brassica napus*) and wild mustard (*Sinapis arvensis*), *Elias Soltani (IRN)*
- 37 Effects of cover crops on weed populations in hazelnut (*Corylus avellana* L.), *Husrev Mennan (TUR)*
- 38 Dormancy breaking and germination in *Thlaspi arvense*, *Descurainia sophia* and *Malcolmia Africana* plants (Brassicaceae), *Hassan Karimmojeni (IRN)*
- 39 Effect of burial depth and soil water regime on the fate of *Cirsium arvense* seeds in relation to burial time, *Sirwan Babaei (IRN)*
- 40 Modelling the effects water stress and temperature on germination of China jute (*Abutilon theophrasti* Med.) seeds, *Esmail Bakhshandeh (IRN)*
- 41 Factors influencing seed germination of wild onion and chickpea cultivars, *Muhammad Ishfaq Khan (PAK)*
- 42 Monitoring of some scout summer weeds, *Mohammad Rezvani (IRN)*
- 43 Effect of Different Temperatures on Seed Germination of Susceptible and Herbicide-Resistant Biotypes of *Avena sterilis* L., *Süleyman Türkseven (TUR)*

## IMPORTANT

Poster presenters must send a maximum of two PowerPoint slides to the relevant section chairs BEFORE March 1<sup>st</sup> 2011 (their emails are besides their names in the programme). Your posters will only be introduced, if the chairs have received the slides in time.

The slide **MUST** contain:

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

**NB.** Some of the abstracts are merely dealing with weed biology. We would strongly encourage those authors to discuss their results in relation to physical and cultural weed management. How might your work affect physical and cultural weed management? Please include these aspects in your final abstract before you submit it for printing in the programme.

## Detailed information

### REGISTRATION PAYMENT

Registration payment can be done by bank transfer or by credit card:

- Registration and hotel accommodation payment can be made by bank transfer to:  
Bank account number: IBAN: TR58 0006 2001 3050 0009 0999 00 (EUR)  
Bank account number: SWIFT: TGBATRISXXX  
Bank full name: T.C. Garanti Bank  
Bank address: T.C. Garanti Bank University Branch 55139 Samsun-Turkey  
Bank telephone number: +90-362-4577951  
Bank fax number: +90-362-4577396  
Bank account holder: Hüsrev Mennan (EWRS Workshop)  
Bank account holder address: Ondokuz Mayıs University Faculty of Agriculture, 55139-Samsun-Turkey  
Bank account number: 9099900  
Branch name: University branch  
Branch Code: 1305  
Bank account holder telephone number: +90-362-3121919  
Bank account holder fax number: +90-362-4576034
- Credit card payment can be made using the form next page **(you can also reserve your hotel room on the form next page).**

We must have received your payment no later than January 15, 2011.

The cost of the registration will be **150 €**. Non-EWRS members will be charged an extra fee corresponding to a year membership-fee (60 € in 2010). The registration fee will cover the costs for the meeting's booklet, facilities, excursion, welcome drink and snacks (Sunday 27<sup>th</sup> March), lunches, coffee and tea breaks (Monday to Wednesday) and dinner on Tuesday evening following the excursion.

# LORESIMA TRAVEL

## Credit Card Authorization Form

**9<sup>th</sup> Workshop of the EWRS working group Physical and Cultural Weed Control,  
28-30 March 2011, Samsun-Turkey**

**Complete in block letters and send by fax to +90 362 4576034**

Participant's name .....

Registration fee total (EUR) .....

Hotel name .....

Hotel check in and check out date.....

Hotel fee total (EUR) .....

\_\_\_\_\_

Total Order (EUR) .....

Card type             Eurocard / MasterCard       VISA       American Express

Cardholder's name \_\_\_\_\_

Cardholder's address (as it is registered at the bank)

\_\_\_\_\_

Card number |\_|\_|\_|\_| - |\_|\_|\_|\_| - |\_|\_|\_|\_| - |\_|\_|\_|\_|

Expiry (month/year) |\_|\_| / |\_|\_|

Card Security Code\* |\_|\_|\_|

The Card Security Code (CSC) is a 3-digit security code that is printed on the back of your Visa or MasterCard.

The number appears on the signature strip after the last four digits of your account number.

The signature strip may contain your entire account number or just the last four digits of your account number.

Either way, the CSC will appear after the last four digits of your account number.

The CSC is used to verify that you have possession of the credit card you are attempting to use.

I, undersigned authorize LORESIMA TRAVEL to debit the above total sum from my credit card as a payment for my workshop costs.

\_\_\_\_\_

Cardholder's Signature

SAMSUN office Address: Kale Mah. 19 Mayıs Bulvarı No 31/C SAMSUN /TURKEY

ÇARŞAMBA office Address: Sungurlu Mah. İstasyon Cad. NO 2 SAMSUN/TURKEY

[www.loresimatravel.com](http://www.loresimatravel.com)

## VENUE

The Workshop will take place at the congress centre on the campus of Ondokuz Mayıs University in Samsun, Turkey. Samsun is located on the Black Sea coast, midway between the western and eastern borders of Turkey. Samsun has an international airport and you can easily reach Samsun via Istanbul using Turkish Airlines, Onur Air, Pegasus and Sun express. Since most international flights go through Istanbul, it would be an excellent opportunity for you to take some extra days sightseeing this spectacular city. Istanbul has a long history and great variety of religions, cultures, people and traditions and sits at the border between Europe and Asia. (Direct flights to Samsun from some European cities to Samsun are possible but mostly during the summer period).

Ondokuz Mayıs University is located in Samsun, the largest city on the Black Sea coast in the North of Turkey, with a population of approximately 1.2 million. Samsun is a major commercial port, an industrial and agricultural city. The university is a modern regional state university established in 1975 with faculties and schools distributed over Samsun and 8 counties. The university, located on 8,500 acres, houses 10 faculties, 2 schools, 9 vocational schools, 4 graduate schools and 12 study and research centers and one conservatoire. Ondokuz Mayıs University has 151 departments and programs with about 21,000 undergraduate and 2,000 graduate students.

## ACCOMMODATIONS AND TRANSPORT TO THE CAMPUS

Lunches will be provided to workshop participants at the campus restaurant. The restaurant, which has a wonderful view of the Black Sea, is within walking distance from the congress centre where the meeting will be held. The central location of the accommodations listed below should encourage meeting after the official programme. We hope that informal discussions will continue while enjoying the local food. Samsun is particularly known for its seafood.

Below is a list of accommodations at the University guest house and nearby hotels within walking distance from the venue **(please note that you must pay using the form on the previous page to get the preferential rates)**:

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Omtel Otel

<http://www.omtelotel.com>

Single Room    Double Room

45 €            70 €

(Located close to the sea side with sea view from many rooms and only 10 minutes to the venue by bus. Busses run very frequently)

Tepe Otel

<http://tepeotel.omu.edu.tr>

Single Room    Double Room

30 €            40 €

(Located on campus, 5 minutes walk to the venue)

Guest house

<http://www.omu.edu.tr>

Single Room    Double Room

20 €            30 €

(Located on campus, 10 minutes walk to the venue)

*Alternative hotels which are located in the city centre, approx. 20 km away from the venue;*

Büyük Samsun Otel (\*\*\*\*\*)

<http://www.buyuksamsunoteli.com>

Single Room Double Room

70 € 90 €

(Located in the city centre, 25 minutes to the venue by bus)

North Point Otel (\*\*\*\*)

<http://www.northpointhotel.com>

Single Room Double Room

60 € 80 €

(Located in the city centre, 25 minutes to the venue by bus)

All prices including breakfast and VAT

## **DEADLINES**

### ***15<sup>th</sup> January 2011***

- Deadline for payment of the workshop fee

### ***31<sup>st</sup> January 2011***

- Deadline for submission of final abstracts (**mandatory**) and optional full papers for the Proceedings. Submissions will only be done online through the web site (see instructions at [www.ewrs.org/pwc](http://www.ewrs.org/pwc)). Please note that you must resubmit your abstract as a Microsoft Word file (either as a doc or as a rtf file, **NOT .docx**) and follow the instructions below. The link for uploading will be available starting January 4<sup>th</sup> 2011.

## **ORGANISING COMMITTEE**

- ***Scientific organisers***
  - Bo Melander (Aarhus University, Research Centre Flakkebjerg, Denmark)
  - Yıldız Nemli (Ege University, Faculty of Agriculture, İzmir-Turkey)
  - F. Nezihi Uygur (Çukurova University, Faculty of Agriculture, Adana-Turkey)
  - Hüsrev Mennan (Ondokuz Mayıs University, Faculty of Agriculture, Samsun-Turkey)
  - Daniel Cloutier (Institut de malherbologie, Beaconsfield, Canada)
- ***Local organisers***
  - Hüsrev Mennan, Ondokuz Mayıs University, Faculty of Agriculture, Samsun-Turkey
  - Sibel Uygur, Çukurova University, Faculty of Agriculture, Adana-Turkey
  - Doğan Işık, Black Sea Agricultural Research Institute, Samsun-Turkey
  - Tansel Serim, Research Organization and Project Management, Ankara-Turkey
- ***Chairman of the working group***
  - Bo Melander (Aarhus University, Faculty of Agricultural Sciences, Department of Integrated Pest Management, Research Centre Flakkebjerg, Denmark)

# Appendix 1

## Instructions for the preparation of abstracts and papers for the proceedings

**Abstracts are mandatory for all authors.**

The final formatting and changes in font size for paragraphs and various headings will be done by the editor.

### General instructions:

Word processor:	You must submit your text in a PC compatible format, either as a Microsoft Word for Windows file as a .doc or as a .rtf file ( <b>NOT .docx</b> ). For any word processor program, the easiest way is to save your text as a RTF file (rich text format).
Paper format:	A4 (210 x 297 mm)
Page margins:	20 mm on every side <b>except for the top</b> where the margin is <b>30 mm</b>
Line spacing:	Single space
Font:	Times New Roman
Font size:	12 pt. everywhere in the text, including headings, title, etc. Text in the tables can be smaller to make it fit but no less than 8 pt. Superscript and subscript can be used anywhere.
Text justification:	Left justified everywhere, for all the text, title, authors, etc
Page numbering:	NONE
Headers, footers:	NONE
Latin names:	Use italics for Latin names. Do not underline. Use common names for crops and Latin names for weeds. Common names for weeds may be indicated in parenthesis after the first mention of the Latin binomial.
Paragraphs:	No indentation
Between paragraphs:	Insert a blank line between paragraphs
Headings:	Four levels of heading can be used. All in Times Roman at 12 pt. <ul style="list-style-type: none"><li>- The first level is bold, preceded and followed by a blank line</li><li>- The second level is in italics, preceded by a blank line</li><li>- The third level is underlined, preceded by a blank line</li><li>- The fourth level is underlined and in italics, preceded by a blank line</li></ul>
Measurement units:	Standard international units should be used
Space preceding and following various headings:	<b>One</b> blank line
Insert only <b>one</b> single blank space after a full stop in a sentence.	
<b>File name:</b>	Please note that you must use file names that are informative when submitting your abstract or full paper. When submitting your text, please use you name and use underscore ( _ ) between words. Example: Bo_Melander.doc. If you submit more than 1 file, use numbers. Example: Bo_Melander_1.doc, etc.

### Abstracts:

**Mandatory** for all authors is the submission of a one-page abstract for each oral or poster presentation. These abstracts will appear in the hard-copy booklet that will be distributed at the

workshop and also in the proceedings of the workshop. Your text must conform to the general instructions above and to the following instructions:

Headings: No more than two levels  
Tables and figures: Should be avoided in the abstracts  
References: Maximum of three references should appear in the abstracts.

See the example at the end of this Appendix.

### **Full papers (optional):**

There is an example at the end of this Appendix.

Authors who want to publish full papers are requested to upload their contributions **no later than 31 January 2011**. These papers will appear in the proceedings which will be made available on the web. **Papers received after 31 January 2011 will not appear in the Proceedings.**

The language for the texts will be English. The texts will not be refereed and therefore the author(s) must assume full responsibility for any errors or omissions. The maximum number of pages allowed for a manuscript is 15 pages (including tables, figures and pictures). The submitted paper must be formatted exactly as it is intended to appear, with the tables and figures included in the text. Left align everything, title, headings, etc.

#### **Title:**

**Bold.** Capitalise only the first word and proper names in the title. Include only the scientific names of weeds and of uncommon crops in the title, but only the common names of well-known crops.

#### **Author(s):**

Skip one line after the Title. The author(s) list and affiliation/location are left aligned and in bold-face. Use first name initials prior to family name (e.g. D.W.M. Pullen<sup>1</sup> and P.A. Cowell<sup>2</sup>). Use the same numbers in superscript after family name to identify authors with same mailing address. On the line below the author's name(s), when there is more than one author, put the number in superscript, followed by the author's name of institution, city, country and email.

#### **Body of the text:**

Skip one line after the last author's address. Main headings are left justified on one line in bold-face. In Materials and methods, include location of manufacturers or suppliers with brand names. Discussion must incorporate conclusions. Skip one line before each heading and skip a line after each heading.

Normally, main headings are:

Abstract, Introduction, Material and Methods, Results, Discussion (or Results and discussion), Acknowledgements, References but other headings could be used if relevant.

Standard international units (SIU) must be used. For SI usage see Standard Practice for Use of the International System of Units E380-91a, available from American Society for Testing and Materials, 1916 Race St., Philadelphia, PA 19103. Use mass rather than weight; use negative exponents for units in the denominator (e.g., kg m<sup>-2</sup>) and use L for litre (mL for millilitre).

Use "Figure" only at start of sentence; otherwise "Fig." or "Figs."

**References:** For reference citations, follow the *Weed Research* style

**Tables and figures:**

- Number tables and figures in Arabic followed by a full stop. Capitalise the first word of the title; all others should be in lowercase unless a proper noun; place a full stop at the end of the table title.
- Insert a blank line before and after a table or a figure.
- The text in the tables should be no less than 8 pt. in size.
- Tables should be made using the Table option of your word processor rather than using spaces or tabs.
- Capitalise the first word of each entry in each column; do not use vertical lines; indicate footnotes by lowercase superscript letters.
- Tables, figures and pictures should not exceed page margins (170 mm).

For any queries about instructions, please contact Daniel Cloutier (pwc2009@ewrs.org)

**Example of an abstract**

**(text truncated, used for illustration purposes only, one extra name was added after Pullen):**

**Comparison of alternative interrow weeder steering systems**

**D.W.M. Pullen<sup>1</sup>, A.N. Addedname<sup>1</sup> and P.A. Cowell<sup>2</sup>**

<sup>1</sup>Cranfield University at Silsoe, Silsoe, Bedford MK45 4DT, UK Email: d.pullen@cranfield.ac.uk

<sup>2</sup>Consultant, formerly with Cranfield University at Silsoe

The success of interrow weeding depends on being able to quickly and accurately guide the weeder along the rows. This can only be done by automatically guiding the weeder. Any automatic weeder steering system requires a sensor/s to provide an error or guidance signal and a mechanism to move the hoes to the correct lateral position at the correct time .....

Results of the study show the modelling technique was accurate. The amplitude of the predicted weeder path was within 2% and the phase angle within 2 degrees of the actual value. The study also suggests fitting steered wheels, whose position moved proportionally with the error signal was overall the most suitable method of steering the weeder. For this steering system the model shows the critical parameters affecting overall performance were the steering gain and hoe position. The tractor type (ICR position), the sensing position, the steered wheel position and steered wheel axle position did not significantly influence performance. However, positioning the steered wheels behind the headstock but in front of the weeding blades would be better practically.

**References**

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Jahns G (1976). Automatic guidance of farm vehicles - a monograph. Agricultural Engineering Departmental Series No 1. Agricultural Experiment Station, Auburn University.

# Example of a full paper (text truncated, used for illustration purposes only):

## Analysis and definition of the close-to-crop area in relation to robotic weeding

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### Abstract

The objective of this paper is to analyse and define the field conditions close to the crop plants of sugar beet (*Beta vulgaris* L.). The aim is to use this study for the choice and.....

### Introduction

So far, no commercial mechanical or physical method has been developed for highly selective control of weeds within the crop row. Concerning efficiency, the available.....

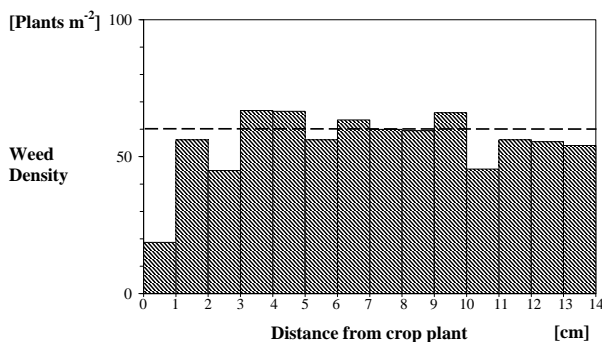


Figure 1. Relationship between weed counts and distance from centre of sugar beet plant at the cotyledon stage. The average weed density of whole plot is indicated by a dotted line.

Table 1. Frequency of weed species on Danish sugar beet fields. Data from a vegetation study during 1987 to 1989 on 47 locations in Denmark (Andreasen, 1990). The weed species, which have a negative impact on yield is indicated by 'Yes'. 'No' means the weed species do not have an negative impact on yield (modified after Melander, 1993)

Latin name	Frequency <sup>a</sup> [%]	Yield reduction impact
<i>Chenopodium album</i>	37.4	Yes
<i>Stellaria media</i>	33.6	Yes
<i>Veronica spp.</i>	23.8	No

<sup>a</sup> Percentage of locations with presence of each weeds species.

### References

- Andreasen C (1990) The occurrence of weed species in Danish arable fields. PhD thesis, The Royal Veterinary and Agricultural University, Copenhagen, Denmark
- Ascard J and Mattson B (1994) Inter-row cultivation in weed-free carrots: the effect on yield of hoeing and brush weeding. *Biological Agriculture and Horticulture* **10**, 161-173.

## Appendix 2

### Provisional List of Participants

Surname, Name	Country
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Khan, Muhammad Ishfaq	Pakistan
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