
EUROPEAN WEED RESEARCH SOCIETY

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Impact of adverse weather conditions on summer crops and their weeds in the Pisa Plain. The picture shows sunflower just before harvest (October 2010) after late sowing in June due to adverse spring weather. All summer crops (soybean, maize and sunflower) in this area (8 km from Pisa, Italy) showed extremely high weed infestation levels and some maize has not even been harvested. It provides abundant food for birds during winter. (Picture and text: Camilla Moonen).

CONTENTS

Contents	2
From the Board	3
President's Message.....	3
In Memoriam	4
General Assembly announcement	5
Job offer	5
Scientific Committee and Working Groups	6
4 th Workshop of the EWRS Working Group Herbicide Resistance	6
Report of the meeting of the EWRS Working Group Germination & Early Growth.....	6
Reviews	7
PhD-thesis (1)	7
PhD thesis (2)	8
Member contributions	9
2011 North American Invasive Plant Ecology and Management Short Course	10
Call for Conferences	11
Crop Protection in Southern Britain 2011	11
4 th Workshop of the EWRS WG Weeds and Biodiversity	11
9 th Workshop of the EWRS Working Group Physical and Cultural Weed Control	12
63 rd International Symposium on Crop Protection.....	12
11 th World Congress on Parasitic Plants.....	13
Resistance 2011	14
2 nd Workshop of the EWRS Working Group on Weed Mapping	14
3 rd Symposium on Environmental Weeds and Invasive Plants.....	15
6 th World Congress on Allelopathy	16
International Conference Global Herbicide Resistance Challenge 2013.....	16
Association of Applied Biologists conferences.....	17
Upcoming Conferences and Workshops.....	17
Editorial	19
EWRS Board 2010–2011	19
EWRS Scientific Committee 2010-2011	20
Instructions for Contributors.....	21
Charges for Advertising Material in the Newsletter	21

FROM THE BOARD

PRESIDENT'S MESSAGE

Dear Colleagues,

First, I wish all of you a Happy New Year. Agriculture and science need your expertise more than ever when trying to guarantee efficient food production and to conserve our environment. Let us hope that your know-how will lead us to exciting projects this year and to the motivation of young colleagues who will have to shape the future of our business.

We can be proud of what EWRS achieved in 2010. The Kaposvár Symposium was a full success, we gained new members and we have a sound financial basis. We will see a few changes this year. Elections for a new vice-president are ahead of us. Our website is full of workshop and symposia announcements. The board will meet in Samsun in March in order to discuss activities required for the next EWRS symposium in Turkey. Our Working Groups have many new ideas which will be discussed at the SciCom meeting in Samsun. The EU commission has started with biodiversity initiatives and a legislation against the spreading of alien invasive plants as mentioned in a previous Newsletter. We want to be players in these concerts.

The year 2011 will start with challenges, also. A few major ag-chem companies have announced reductions in their herbicide research investments. Larry Steckel, an extension professor from Western Tennessee asks "Are we running out of herbicides?" in a November issue of Delta Farm Press. He mentions a petition signed by US scientists asking a major chemical company not to close their herbicide discovery. Not all companies seem to see the future of herbicides negative. Some are still hiring staff and are investing in weed research.

It is about time to contact Russian weed scientists. We actually had an offer of St. Petersburg to organize one of our symposia there. By chance, Turkey was elected then as the colleagues there had made offers already before. But I think we can learn a lot of our Russian colleagues. One of my favourite websites is <http://www.agroatlas.ru/>. You do not only get an excellent overview on weed biology there. Our colleagues have also made maps available for the major weeds in Russia. I believe Russia will play a major global role in agriculture in the future.

Weed science stays a nice discipline with very practical aspects. News about weed resistance should make us aware of the fact that weeds are inventive. We have selected them during the last 6000 years and they will keep us busy. Some seem to disappear, others show up as new companions on our way to improve agriculture and to restore our environment.

Let's start this new year with the awareness that challenges can be chances. I wish you all the best for 2011.

Hansjörg Krähmer

[Back to Content](#)

IN MEMORIAM

Britt PESSALA, EWRS President 1990-1991

Mrs Britt PESSALA passed away on 23 October, 2010 at the age of 71 after having fought against cancer for 18 years. Her enormous energy and joy of living kept her going strong until the very last days. Britt died at her home farm close to Helsinki where she was born in 1939.

Britt PESSALA studied horticulture at the Helsinki University in the 1960s. Her career as research scientist started in 1968 at the Agricultural Research Centre of Finland. Later on she worked as inspector testing and evaluating new herbicide products for the Finnish market. In 1983 she moved to private sector and worked as research manager at Kemira Ltd. serving the company and co-operating with many international chemical companies until the retirement in 1993.

Weed research in the Nordic countries owes much to Britt's studies. Grass weeds, wild oat and couch grass in particular, were of great interest to her. She entered deeply into the biology of wild oat during her research visit to the Weed Research Organization, UK in 1982. Britt transferred her knowledge clearly and without delay to colleagues, farmers and research communities. She was a colourful and enthusiastic speaker in national and international symposia.

Britt was an active member of various scientific societies both in Finland and abroad. As a sign of her international recognition she was elected as EWRS President in 1990-1991. Together with Dr Ray HANCE (Scientific Secretary), Dr Birgit KRAUSKOPF (ExCom Secretary) and Dr Thomas EGGERS (Membership Secretary) she worked for the mission of EWRS for instance by hosting the EWRS Symposium in Helsinki in 1990.

In free time Britt was truly and deeply devoted to badminton. Together with her husband they ran a badminton centre and trained hundreds of young players. Britt loved books, movies, dancing and life.

Jukka SALONEN, Finnish National representative of EWRS

[Back to Content](#)

GENERAL ASSEMBLY ANNOUNCEMENT

Dear Member,

The Society is obliged to have one General Assembly (GA) every year. In the previous the General Assembly has accepted the proposal by the Board to have the next General Assembly in Samsun, Turkey, March 27, 2011. All members are invited to join the 37th General Assembly in Samsun, Turkey. [This is the link to the Agenda of the 37th GA published online.](#)

You may be interested to see the Minutes of the 36th General Assembly, held in Kaposvár July 2010. [This is the link to the online Minutes of the 36th General Assembly.](#)

In case you want to see the status and function of the General Assembly in the Society, please see the online Constitution. [This is the link to the online Constitution.](#)

The GA is held in the weekend where the EWRS Working Group Physical Weed Control has a workshop meeting (28-30 March 2011) in Samsun, Turkey.

With regards,
on behalf of the Secretary, Dr. Andrej Simončič
Ben Post, Membership Officer

JOB OFFER

We're improving
agricultural
sustainability through our
innovations*

*Our work matters

As global demand for food and fuel continues to rise, we are dedicated to our purpose: Bringing plant potential to life. Syngenta is one of the world's leading companies with more than 25,000 employees in over 90 countries. We work in a collaborative and inspiring culture where personal contribution is rewarded. Growth and development are at the heart of our culture. Through our world-class science, global reach and commitment to working with our customers, we help to increase crop productivity, protect the environment and improve health and quality of life. There's never been a more important time to join Syngenta.

Weed Control Biologist

£36,000 - £40,000 pa + benefits (depending on expertise)
Jealott's Hill, Bracknell, Berkshire

Weeds pose an important challenge to farmers around the world, and weed evolution means there is a constant need to discover and develop new control technologies. Syngenta is a leading supplier of herbicide solutions. We are looking for a weed scientist to join a multi-disciplinary team committed to this vital work.

As part of our Weed Control Biology Group, you will design glasshouse and field experiments, and provide expert input to help drive our research programmes. Essentially you'll have a first degree, and ideally a PhD, plus considerable experience of weed biology, agronomy and control practices. The role will involve some international travel.

This is a rare opportunity to enter the industry at an influential level within Syngenta.

To apply, please go to www.syngenta.com and navigate to our current vacancies via the career page. **Closing date: 28th March 2011.**

The Syngenta logo, featuring the word "syngenta" in a lowercase, sans-serif font with a green leaf-like shape above the letter 'a'.

[Back to Content](#)

SCIENTIFIC COMMITTEE AND WORKING GROUPS

4TH WORKSHOP OF THE EWRS WORKING GROUP HERBICIDE RESISTANCE

12 - 13 April, 2011
Ghent, Belgium

Dear Colleague,

We are pleased to invite you to participate in the 4th meeting of the EWRS working group "Herbicide Resistance" which will be held in Ghent, Belgium, 12 and 13 April 2011. The aim of the meeting is to present on current research in herbicide resistance, exchange results, experiences and information, and to stimulate discussion. The workshop will take place at Ghent University in the Oehoe (i.e. where the plenary session of ISCP takes place. You can register at: <http://www.ewrs.org/ewrslgin/login.asp>

Faculty of Bioscience Engineering (Ghent University)
Building E – Oehoe, Coupure links 653, 9000 Ghent, Belgium.

Local organiser: Els Mechant (+32 (0)9 264 60 99
EWRS Working Group: Anne Thompson, Baruch Rubin, Paul Neve

REPORT OF THE MEETING OF THE EWRS WORKING GROUP GERMINATION & EARLY GROWTH

Kaposvár, Hungary, July 11th, 2010
By Ilse A. Rasmussen, WG coordinator; ilsea.rasmussen@gmail.com

The meeting was attended by 13 members of the WG. The main objectives of the meeting were to discuss the results from the common experiments carried out by some members of the WG from 2005 to 2009, the publications arising from these experiments, and the future plans for the activities of the WG.

Ilse A. Rasmussen welcomed the participants, and gave a short introduction to the WG for the benefit of



those that had not participated earlier. She presented the common experiments: two sets of experiments: one carried out from 2005-2007 with 11 participants from Europe and North America and one carried out from 2007-2009 with 12 participants. The experiments consisted of a common set of seeds (from Denmark) and at each location a local set of seeds of *Chenopodium album*. These were buried in net cages in autumn, disturbances were carried out during spring and the emergence was monitored. Jukka Salonen presented the results from the Finnish location 2008-09. Adam Davis had made a presentation of all the datasets from 2008 and 2009,

but as he was not able to be present, Ilse gave his presentation as best she could, which gave rise to discussions about the analysis. Alistair Murdoch gave a presentation about the characterisation of the seeds, which he had carried out. His results indicated that the seeds from higher latitudes (further north) had less dormancy and a lower reaction to light than those from lower latitudes. Jack Dekker

gave a presentation about opportunity, as an introduction to a discussion about the draft paper about the results from the 2005-2007 experiment, he had distributed before the meeting. It was agreed, that the vast dataset can be utilized for publications with different approaches, which will complement each other. The possibility to make several contributions for a special issue of e.g. Weed Research was mentioned. It was agreed, that all participants from the WG – even those that have not participated in carrying out the experiments – are welcomed to write draft papers from different approaches. The participants in the experiments have the final say about what to publish, and must be accredited as co-authors. It was suggested to have a writing workshop during autumn 2011.

Donato Loddo made a presentation about suggestions for new common experiments, and it was agreed that if such experiments are to be started within the next couple of years, the planning and writing of the protocol should start soon. It was suggested to carry out an experiment in collaboration with the WG Physical and Cultural Weed Control. Donato (and/or Ilse) will carry this suggestion forward at the next meeting of that WG (Samsun, Turkey, spring 2011).

Finally it was decided that the next ordinary WG meeting should be a two-day meeting in 2012, but the venue was not decided upon.

[Back to Content](#)

REVIEWS

PHD-THESIS (1)

Agronomic challenges for organic crop husbandry.
Dr. Paul Riesinger, University of Helsinki, Finland.

Practiced correctly, organic farming in Finland is productive, and this productivity can be increased considerably. This is one of the conclusions in Paul RIESINGER's dissertation on "Agronomic challenges for organic crop husbandry" presented at the University of Helsinki in May 2010.

Riesinger explored the two major factors restricting the agronomic productivity of organic crop husbandry under Nordic conditions: nitrogen supply and weed occurrence. He studied perennial red-clover grass leys and spring cereal crops on 34 organic farms located in the southern and the north-western coastal regions of Finland. Herbage growth, the clover content of the ley, biological nitrogen fixation, the occurrence of weed species and weed-crop competition in spring cereal stands were examined in relation to climate conditions, soil properties and management measures.

The results showed that skills and knowledge are crucial in organic farming: the productivity of ley and spring cereal crops on farms managed by full-time farmers who have expertise and experience in organic farming was on the same level as that of the average for all conventional farms located in the respective regions.

Weed infestation was not generally correlated with the duration of organic farming. "Successful weed control requires the integration of long- and short-term crop husbandry, and field-specific management", says Riesinger. The dissertation proposes many measures aiming at the further development of organic crop husbandry.

The dissertation is available as an electronic publication on the E-thesis service at <http://urn.fi/URN:ISBN:978-952-10-4302-4>. More information and further discussion: paul.riesinger@novia.fi

PHD THESIS (2)

Consequences of the establishment of sown grass strips for weed species

Dr. Stéphane Cordeau, UMR1210 Biologie et Gestion des Adventices, INRA Dijon, France. E-mail s.cordeau@groupe-esa.com



The intensification of the management of weed populations, led by a potential decrease in the yield and quality of crop harvest, has largely induced their decline in arable zones across the last decades. This floristic decline in arable landscape has induced a loss of a larger biodiversity because the presence of others organisms (birds, insects, mammals) are strongly linked with the abundance of trophic resources as weed are. To counter with this loss of biodiversity and to limit the negative impacts of farming practices on environment, numerous agri-environmental schemes were launched through Europe. In France, sown grass strips were established by farmers along streams and rivers to limit the

pesticide drifts and the hydric soil erosion. The field margin strips are mainly sown with grass mixtures and do not receive pesticides nor fertilizers. Consequently, their establishment in the arable landscape for many years, without compensation payments for farmers, spark many fears concerning the weed risk that they could represent for adjacent fields. At the opposite, these non-cropped areas adjacent to cultivated fields could be an opportunity to maintain weed populations providing ecosystem services for agriculture which were more and more highlighted.

This PhD work shows that sown grass strips harbour large flora diversity. The weed communities are mainly structured by the type of adjacent boundary (hedge, river, ditch, etc.). The succession of disturbance and competition phase caused by mowing and competition of sown species respectively, do not allow annual species to maintain their populations in this habitat where they rarely reach fructification stages. The frequently observed species are perennials but rarely dominated over the sown cover. Even if the sown grass strips show high level of species richness, mainly composed by arable species, these strips do not enhance the spread of species from the boundary to the field core. Indeed, at least at short term, the sown grass strips decrease the edge effect because they were established where the flora transition between the boundary and the field previously occurred. Moreover, the establishment and management practices cost for farmers are reasonable at the farm scale.

Although some fears on the decline of annual species, the sown grass strips represent an opportunity for the weed management at the field scale as well as at the landscape scale. Joint study linking the flora with other organisms (soil microflora, grasshoppers) have been initiated and could allow to put the environmental sown grass strips to good use for biodiversity.

Download the thesis here : <http://tel.archives-ouvertes.fr/tel-00556817/fr/>

[Back to Content](#)

MEMBER CONTRIBUTIONS

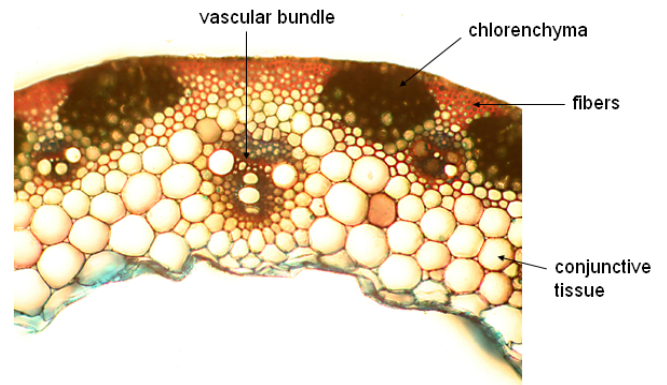
Dear Colleagues,

Avena fatua L. and *Avena sterilis* L. are the objects of this contribution. Their Bayer codes are AVEFA and AVEST. Ilias Travlos has presented morphological and resistance data for these species at our Kaposvár Symposium. They have been published recently in the magazine 'Genetic Resources and Crop Evolution' 57:337–341, (2010) by Ilias and by Costas Giannopolitis. Both species together are presumably the most frequent worldwide weeds in arable crops. It is not clear to me where which wild oats species occurs exactly. Literature data let me assume that *Avena fatua* L. prefers cooler climates and prevails in Northern Europe whereas *Avena sterilis* L. seems to be more widespread in Southern Europe. Wild oats used to be a dominating species in the seventies of the last century in many Northern European countries. With the drastic cropping change towards winter crops such as winter wheat and oil-seed rape, wild oats lost its dominant role. It was replaced by blackgrass and silky bentgrass as major grass weeds in Northern Europe. The influence of cropping practice on weed spectra is stressed by a recent article of Andreasen and Streibig in Weed Research (Early View, Dec 12, 2010).

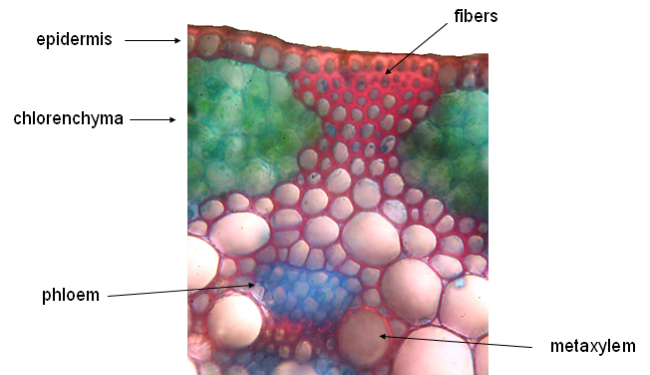


Avena fatua (L.) P. Beauv. infested spring wheat field in North Dakota. The right part was treated with a herbicide. Left is the untreated check.

Histological differences between *Avena* species seem to play a role in seeds primarily and have been described by Ilias as mentioned above. Vascular bundles in the stem of *Avena fatua* are arranged in two to three rows. The chlorenchyma is imbedded in sclerenchyma (fibers) surrounding the stem.

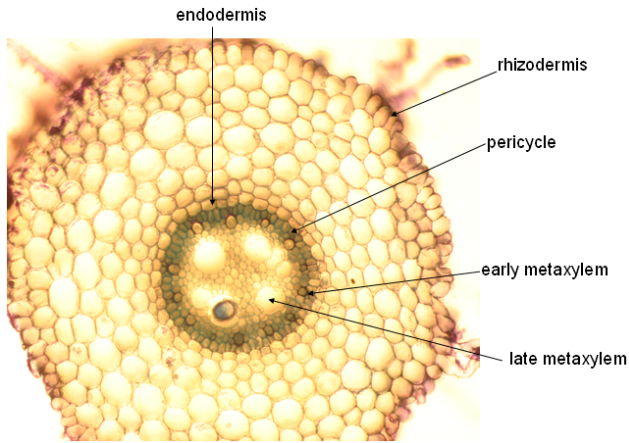


Transverse section through hollow stem of *Avena fatua* L. , stained with Etzold Blue, 100x

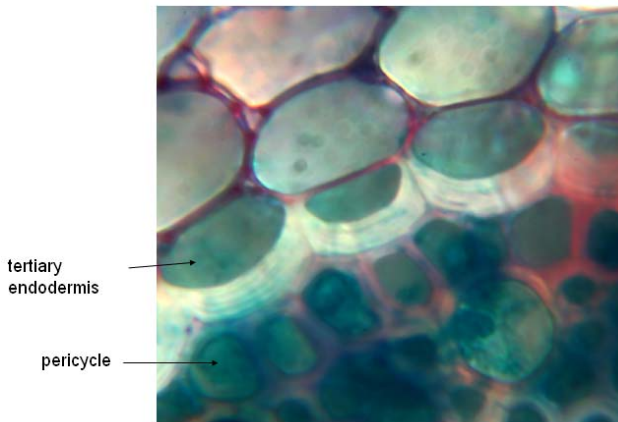


Transverse section through stem of *Avena fatua* L. , stained with Etzold Green, 400x

The root is polyarch without a central vessel.

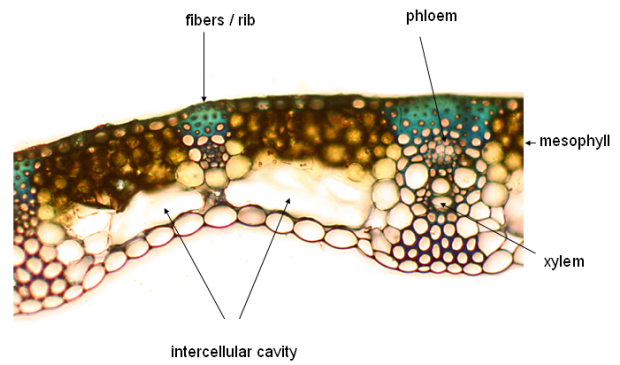


Young wild oat root, stained with toluidine blue, 100x



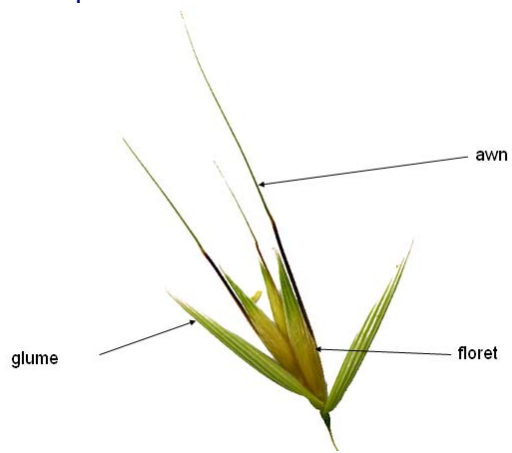
Old root with tertiary endodermis and concentric deposits of cellulose similar to the ones described for *Elymus repens* in Newsletter 107; modified Etzold, 1000x

The leaf is characterized by large cavities for gas exchange



Leaf of *Avena fatua* L., methylene blue, 100x

The inflorescence consists of spikelets with two or three spikelets.



My next report will be devoted to *Bidens pilosa* L. and *Bidens tripartita* L.

Hansjörg Krämer

[Back to Content](#)

2011 NORTH AMERICAN INVASIVE PLANT ECOLOGY AND MANAGEMENT SHORT COURSE

6 – 8 July 2011

University of Nebraska, Lincoln West Central Research & Extension Center, North Platte

July 6 - 8, 2011. The North American Invasive Plant Ecology and Management Short Course (NAIPSC) is three days of intense instruction and learning for those interested in the basics of invasive plant ecology and management. The first annual course will be held at the University of Nebraska-Lincoln West Central Research & Extension Center in North Platte, NE. The NAIPSC will include presentations, hands-on workshops, site visits and instructor-led discussion sessions on the latest in invasive plant ecology and management. CEU and graduate student credit will be available. View the brochure or visit the website (<http://ipscourse.unl.edu>) for more information and how to register.

The registration fee is \$650 and registration deadline is 1 May 2011. A max of 40 participants will be admitted to the course.

CALL FOR CONFERENCES

CROP PROTECTION IN SOUTHERN BRITAIN 2011

23-24 February 2011
Holiday Inn, Impington, Cambridge, UK

The conference, which is the third in this series, will provide a major platform for the dissemination of recent developments in crop protection and production research and practice with a focus on dissemination to advisors and practitioners. Papers will range in content from those with a high biological science focus, to those that report new options for chemical or non chemical control or address key practical issues for crop production, fertiliser, weed, pest and disease management in crops.

Invited speakers: Stephen Moss (Rothamsted Research, UK) - herbicide resistance
Anne-Sophie Walker (INRA, Versailles, France) - fungicide resistance

4TH WORKSHOP OF THE EWRS WG WEEDS AND BIODIVERSITY

Dijon, France
28 February - 2 March 2011

The 4th meeting of the Working Group 'Weeds and biodiversity' will be held in Dijon, France, 28 February to 2 March 2011. Thursday morning, 3 March, there will be an optional training session on seed predation methods and research.

Aim

The aim of the meeting is to present the state of the art on current research, evaluation and preparation of agro-environmental measures with regard to the services provided by biodiversity in the agro-ecosystems and their conservation. The purpose is to exchange results, experience, information, establish networks, and stimulate discussion.

Venue

The Workshop meeting will take place at AgroSupDijon (College of Agronomy, on the campus of the University of Burgundy). Dijon is easy to reach, less than 2 hours by train from Paris and Lyon. Some low-cost airline companies land at Dijon-Longvy airport.

The meeting will start with lunch on Monday and finish at dinner on Wednesday. An optional train session on seed predation methods and research will be organised on Thursday morning, 3 March. A limited number of low cost rooms in a student residence will be available on the campus. A list of hotels is included in the 2nd circular.

Scientific Programme

Oral sessions are organized on the following themes:

- Session 1: Agriculture and Biodiversity, starting with an invited speaker, HH Steinmann, talking about 'Attracting Farmers for producing Weed Diversity – Issues of Socio Economics and Administration'.
- Session 2: Sampling and Assessing Biodiversity, starting with two invited speakers, F Dessaint and B Chauvel, treating 'Sampling strategies to assess biodiversity of weeds: what is carried out today?'
- Session 3: Ecological services of weeds
- Session 4: Seed predation, starting with an invited speaker, A. Davis, talking about 'New approaches to understanding weed seed predation in agroecosystems'

Posters will be on display for the duration of the meeting to stimulate discussions at coffee breaks and during a special poster session.

Registration

Please go online at: <http://www.ewrs.org/biodiversity> to keep up to date and view the circulars and more detailed information concerning the Workshop. The 3rd Circular is now available!

We look forward to receiving your contributions and hope you will be able to join us in Dijon!
Local organizers: Bruno Chauvel, Henri Darmency, Fabrice Dessaint, Sabrina Gaba, Sandrine Petit.
EWRS working group: Bärbel Gerowitt.

9TH WORKSHOP OF THE EWRS WORKING GROUP PHYSICAL AND CULTURAL WEED CONTROL

28-30 March 2011
Samsun, Turkey

As announced in the previous Newsletters (no. 109 and 110), we will have the 9th workshop in March 2011 in Samsun, Turkey. The dates have now been determined and the event will take place from Monday the 28th of March to Wednesday the 30th of March, 2011. As usual, we will arrange a welcome drink on Sunday evening (the 27th of March). Hüsrev Mennan from Ondokuz Mayıs University in Samsun has kindly offered to host the workshop. Samsun is located at the Black Sea, approximately midway between the western and eastern borders of Turkey.

Hüsrev Mennan, Daniel Cloutier and I have produced a first circular with more details on the programme, submission of abstracts, accommodations, the venue etc. The circular can be uploaded from the working group's web site: <http://www.ewrs.org/pwcl/>. If you have problems in doing so, you can contact either Hüsrev Mennan (hmennan@omu.edu.tr) or me (bo.melander@agrsci.dk) and we will e-mail you the circular.

Bo Melander

63RD INTERNATIONAL SYMPOSIUM ON CROP PROTECTION

24 May 2011
Faculty of Bioscience Engineering, Ghent University, Ghent, Belgium.

We are pleased to inform you that the "63rd International Symposium on Crop Protection" will be held on May 24, 2011 at the Faculty of Bioscience Engineering, Ghent University, Ghent, Belgium. The symposium will give attention to all topics related to crop protection.

Deadline for on-line submission of abstracts is **January 31, 2011**. The full program will be available in March 2011. The proceedings will be published in a special issue of the journal "Communications in Agricultural and Applied Biological Sciences". All practical information on the symposium can be found at our website: <http://www.iscp.ugent.be>

All correspondence should be sent to Bjorn Vandekerckhove, Secretary ISCP, Department of Crop Protection, Faculty of Bioscience Engineering, Ghent University, Coupure Links 653, B-9000 Ghent, Belgium. E-mail: iscp@ugent.be Tel +32 9 264 6145, Fax +32 9 264 6223.

[Back to Content](#)

11TH WORLD CONGRESS ON PARASITIC PLANTS

7-12 June 2011
Martina Franca, Italy

We are pleased to invite you to the 11th World Congress on Parasitic Plants, that will be held from 7 to 12 June 2011 in Martina Franca, Italy. The Congress continues a long tradition of regularly assembling the world's experts on parasitic plants for professional and scientific meetings, which started in 1973 with the first international meeting in Malta.

Dates and location

The Congress will be held from in Martina Franca, a very nice small town located in South Italy, around 70 Km from Bari, in the heart of the Itria Valley, famous worldwide for the Trulli, the typical buildings recognized as World Heritage by UNESCO. The Congress will be held at the Park Hotel San Michele, an historic and fascinating hotel surrounded by a nice garden, located very close to the old city.

Topics

Contribution and participation from researchers on any weedy and non-weedy parasitic plants is encouraged. The program will consist of oral presentations and posters. Oral presentations will be invited or selected from submitted preliminary abstracts. Topics will include but are not limited to the following:

- Evolution and phylogeny of parasitic plants
- Parasite biochemistry and physiology (including molecular biology)
- Floral biology
- Ecology and population biology of parasitic species
- Host parasite communication (including germination stimulation, haustorial induction, etc.)
- Host and non-host response to parasitism
- Parasitic weed management
- Regulation and phytosanitation
- Parasitic plant genomics
- Geographical Information System (GIS) and modelling in parasitic weeds
- Crop resistance to parasitic weeds and crop breeding
- Any other aspects, descriptions, approaches and ideas related to parasitic plants

Symposia

The Scientific Committee encourages congress participants to propose topics for special symposia that will be held during the congress. The proposed topics should be considered as the "state of art" in any field of parasitic plants research. Proposals including title, abstract (limited to 100 words) and a list of (4-6) invited speakers should be sent to the Scientific Chair (eizenber@agri.gov.it) before November 1st, 2010.

Registration

The registration fee will be kept as low as possible, and in line with the previous World Congresses on Parasitic Plants. The local organizers will assure the success of the congress by organizing high quality accommodation, food and services for attendees and accompanying persons. The registration fee will include access to the conference sessions and exhibition, accommodation in single, double or triple rooms for 4 days, full-board service including breakfasts, lunches and dinners, mid session refreshments gala dinner, half-day field/tourist excursion, transportation from the Bari airport to the venue and return delegate pack, one copy of the proceedings.

Information

Information can be found at the official Website of the Congress at: <http://ipps2011.ba.cnr.it>

Please visit it regularly, or pre-register to receive updates on all the news about the Congress. Further information can be obtained from the local organizer, Maurizio Vurro (Institute of Sciences of Food Productions, National Research Council, Bari, Italy; e-mail: maurizio.vurro@ispa.cnr.it). Any information about accommodation, tours, location, etc. can be required to the following email address: ipps2011@area.ba.cnr.it.

Deadlines

- March 1st 2011 - Abstract titles submission
- April 1st 2011 - Early registration
- April 15th 2011 - Abstracts to be considered for oral presentation
- May 1st 2011 - Abstract submission
- May 27th 2011 – Registration

RESISTANCE 2011

Rothamsted Research, Harpenden, UK
5-7 September, 2011

This major international conference, the sixth in an ongoing series, will review the latest research on the origins, nature, development and prevention of resistance to insecticides, fungicides and herbicides. It will provide a forum for researchers, consultants, regulators and industrialists to present and discuss approaches to overcoming this increasingly important constraint to effective crop protection. Themes will include:

- The current status of resistance to pesticides
- Resistance mechanisms
- Population biology and modelling
- Applications of genomics
- Risk assessment and regulation
- Transgenic crops

The conference will be held at Rothamsted Research, West Common, Harpenden, Hertfordshire. For information see:

<http://www.rothamsted.bbsrc.ac.uk/Research/Centres/Content.php?Section=Research&Page=Resistance2011>

[Back to Content](#)

2ND WORKSHOP OF THE EWRS WORKING GROUP ON WEED MAPPING

21-23 September 2011
Jokioinen, Finland

The 2nd workshop of the EWRS Working Group 'Weed Mapping' will be held in Jokioinen, Finland, 21-23 September 2011.

Aim

The aim of the workshop is to learn about the latest weed mapping activities in Europe. This includes micro- (plots, small areas) and macro-mapping projects (regions, countries). Methodology should receive special attention as we would like to find tools which allow us to combine data for a European overview of weed distribution and to derive conclusions and trends from our existing data. Contributions will not be restricted to weed mapping in agriculture only.

The workshop aims to be informal and to stimulate discussion among participants. We will combine plenary scientific sessions with oral and poster presentations and round-table discussions. The offered contributions will be available in the book of Abstracts and later on as Proceedings file at the working group's web site.

Venue and general information

The Workshop will take place at MTT Agrifood Research Finland in Jokioinen. MTT's headquarters are located in Jokioinen, south-western Finland. Please visit www.mtt.fi.

The venue is easy to reach by bus from the Helsinki airport. The meeting will start on Wednesday evening with registration and get-together, continues with a full-day programme on Thursday and is planned to finish after lunch on Friday.

The estimated cost of the registration will be 150 €. Non-EWRS members will be charged 210 € (includes EWRS membership fee for one year i.e. 60 € in 2011). Cost of a single room in the nearby city of Forssa is 50-70 €/night. Please note that EWRS can offer some travelling scholarships for young scientist who would like to attend the workshop.

Registration

The pre-registration with the offers of contributions started at the working group's web site in mid-November with the deadline of 31 January 2011.

Detailed information available in the 1st Circular at <http://www.ewrs.org/weedmapping/>
We look forward to receiving your contributions and hope to meet you in Finland!

On behalf of the organizing team:

Scientific organizer and Chairman of the Working Group:

Hansjörg Krähmer (hansjoerg.kraehmer@bayercropscience.com)

3RD SYMPOSIUM ON ENVIRONMENTAL WEEDS AND INVASIVE PLANTS

2-7 October 2011

Ascona (Ticino), Switzerland

Central themes of the Symposium will be: Mapping, Early Detection, Public Relation, Funding, Control Methods. The organization committee of the "3rd International Symposium on weeds and invasive plants" has decided to produce the conference proceedings of extended abstracts in form of a citable CD (ISSN). For this reason we are able to change the deadlines :

28.02.2011	Short abstract submission
31.03.2011	Communication of acceptance
15.05.2011	Extended abstracts submission
30.06.2011	Extended abstracts from editors back to authors
15.08.2011	Revised extended abstracts back to editors

See also our website: <http://invasive.weeds.ascona.ewrs.org> for more information and the 2nd announcement. Up to date we have more than 45 abstracts.

Please note: early registration ends by June 15.

[Back to Content](#)

6TH WORLD CONGRESS ON ALLELOPATHY

15-19 December 2011
Guangzhou, China

The 6th World Congress on Allelopathy will be held in Guangzhou, China from December 15 to 19, 2011. The World Congress of Allelopathy (WCA) is a formal academic conference organized by the International Allelopathy Society every three years. Recent trends in sustainable development and advances in research methodology have helped to make allelopathy a rapidly growing research field throughout the world. The 6th WCA will provide an excellent opportunity for exchanges between those who are interested in allelopathy.

The city of Guangzhou is the southern gate of China with a subtropical climate. Because beautiful flowers can be grown year round in Guangzhou, it is called the "Flower City". You are warmly welcomed by your hosts in Guangzhou!

For more information go to:

<http://www.international-allelopathy-society.org/main/WCA/index.html>

The first circular is at:

<http://www.international-allelopathy-society.org/main/WCA/WCA.pdf>

INTERNATIONAL CONFERENCE GLOBAL HERBICIDE RESISTANCE CHALLENGE 2013

18-22 February 2013
Perth, Australia

Global food production is one of the greatest challenges of the 21st Century. Sustaining world food production requires reliable control of yield reducing crop weeds. Herbicides are the principal tool for crop weed control yet their sustainability is threatened by the evolution of herbicide resistant weed populations in many parts of the world. The latest chapter in resistance evolution is the widespread appearance of glyphosate resistant weeds threatening the success of glyphosate resistant crops. Crops with new herbicide resistance gene traits, new herbicides and non-chemical methods to manage weeds are being introduced to counter the weed/resistance threats.

The Global Resistance Challenge 2013 conference offers a multidisciplinary forum focused on all aspects of herbicide resistance in crops and weeds and their impact on global food production. Scientific sessions will range from the molecular basis of herbicide resistance evolution through agro-ecology and agronomy to on-farm resistance management.

The Global Resistance Challenge 2013 conference will provide a stage for young and established private and public sector researchers, crop consultants and others to present their work in front of a welcoming international audience in the beautiful portside city of Fremantle, Perth, Western Australia. We welcome everyone who wishes to discover the latest advances in herbicide resistance to Perth in February 2013, to experience a magnificent Western Australian late summer.

For more information: <http://www.herbicideresistanceconference.com.au/>

[Back to Content](#)

ASSOCIATION OF APPLIED BIOLOGISTS CONFERENCES

The following list of conferences is among the ones proposed by the Association of Applied Biologists:

9 February 2011

Interaction of Pesticide Application and Formulation on Residues in Fruit and Vegetables at: Syngenta, Jealott's Hill, Berks

23-24 February 2011

Crop Protection in Southern Britain at: The Holiday Inn, Impington, Cambridge, UK

13 April 2011

Innovative ideas in pest and weed control in field vegetables at: Rothamsted Research, Harpenden, UK

14-15 April 2011

Systems Approaches to Crop Improvement at: Rothamsted Research, Harpenden, UK

27-28 April 2011

Vegetation Management at: Sheffield Hallam University, Sheffield, UK

28-29 June 2011

GM Crops: From Basic Research to Application at: Rothamsted Research, Harpenden, UK

More information can be found on the following website:

www.aab.org.uk/contentok.php?id=184&basket=wwsshowconflist

[Back to Content](#)

UPCOMING CONFERENCES AND WORKSHOPS

WEED SCIENCE SOCIETY OF AMERICA ANNUAL MEETING

7 – 10 February 2011

Portland, Oregon, USA

<http://www.wssa.net>

CROP PROTECTION IN SOUTHERN BRITAIN 2011

23-24 February 2011

Holiday Inn, Impington, Cambridge, UK

www.aab.org.uk/contentok.php?id=184&basket=wwsshowconflist

4TH WORKSHOP OF THE EWRS WORKING GROUP WEEDS AND BIODIVERSITY

28 February -2 March 2011

Dijon, France

<http://www.ewrs.org/biodiversity>; henri.darmency@diion.inra.fr

9TH WORKSHOP OF THE EWRS WORKING GROUP PHYSICAL AND CULTURAL WEED CONTROL

28-30 March 2011

Samsun, Turkey

bo.melander@agrsci.dk

63RD INTERNATIONAL SYMPOSIUM ON CROP PROTECTION

24 May 2010

Ghent University, Ghent, Belgium

<http://www.iscp.uqent.be>

11TH WORLD CONGRESS ON PARASITIC PLANTS

7-12 June 2011

Martina Franca, Italy

ipps2011@area.ba.cnr.it; <http://ipps2011.ba.cnr.it>

NEW ZEALAND PLANT PROTECTION SOCIETY MEETING

9 – 11 August 2011
Rotorua, New Zealand
<http://www.nzpps.org>

RESISTANCE

5-7 September 2011
Rothamsted Research, Harpenden, UK
<http://www.rothamsted.bbsrc.ac.uk/Research/Centres/Content.php?Section=Research&Page=Resistance2011>

2ND WORKSHOP EWRS WORKING GROUP ON WEED MAPPING

21–23 September 2011
Jokioinen, Finland
<http://www.ewrs.org/weedmapping/>

23RD ASIAN-PACIFIC WEED SCIENCE SOCIETY CONFERENCE: "WEED MANAGEMENT IN A CHANGING WORD"

25 – 30 September 2011
The Sebel, Cairns, Australia
<http://www.apwss2011.com>

3RD SYMPOSIUM ON ENVIRONMENTAL WEEDS AND INVASIVE PLANTS

2-7 October 2011
Ascona (Ticino), Switzerland
<http://invasive.weeds.ascona.ewrs.org>

6TH WORLD CONGRESS ON ALLELOPATHY

15-19 December 2011
Guangzhou, China
<http://www.international-allelopathy-society.org/main/WCA/index.html>

WEED SCIENCE SOCIETY OF AMERICA ANNUAL MEETING

6– 9 February 2012
Big Island, Hawaii, USA
<http://www.wssa.net>

VITH INTERNATIONAL WEED SCIENCE CONGRESS (IWSC): DYNAMIC WEEDS, DIVERSE SOLUTIONS

17– 22 June 2012
New Century Grand Hotel, Hangzhou, China
<http://www.iwss.info>

18TH AUSTRALASIAN WEEDS CONFERENCE

8– 11 October 2012
Sebel and Citigate Albert Park, Melbourne, Australia
<http://www.18awc.com>

INTERNATIONAL CONFERENCE GLOBAL HERBICIDE RESISTANCE CHALLENGE 2013

18-22 February 2013
Perth, Australia
<http://www.herbicideresistanceconference.com.au/>

[Back to Content](#)

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[Back to Content](#)

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[Back to Content](#)

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INSTRUCTIONS FOR CONTRIBUTORS

**Deadline for contributions to be published in the following Newsletter issue:
1 April 2011**

Photographic images

It is possible to include photographic material. Photographs can be processed and scanned. Pictures can be sent as negatives, positives (slides with and without frames) and as original pictures. The easiest to handle are digital pictures, which can be reproduced of a higher quality within the Newsletter. Please make sure that these images are taken at no less than 300 dpi otherwise the picture quality drops.

Questions

If you have any problems in writing or formatting your article, please do not hesitate to contact me. I'll be happy to assist you. As Technical Editor of the Newsletter, I prepare the final layout of the Newsletter prior to publishing. You can contact me by sending an E-mail to newsletter@ewrs.org / moonen@sssups.it or by calling me at +39 050 883567. I'm looking forward to receiving your contributions.

Camilla Moonen

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The rate for an advertisement in all four editions of a year is € 400,00 / year / page. Reductions can be negotiated with the Newsletter editor for half page adverts. Maximum 4 pages of adverts in each issue.

[Back to Content](#)