A special issue of Weed Research is on its way, focusing on the ecology, invasion, and control of *Impatiens glandulifera* Royle across Europe. The special issue arose out of a workshop that was hosted at Royal Holloway University of London. This was one of the Pathways to Impact from a recent NERC-funded grant to the Royal Holloway University, with CABI and the University of Reading. Researchers from across Europe presented their work on this invasive weed species (picture and text: Alan Gange).
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Dear EWRS members,

As we rapidly approach the end of another summer, I trust you have all had the chance to take a relaxing and well-deserved break with family, friends and/or loved ones, and that the preceding field season was a success. Following the previous summer where we had the EWRS symposium in Ljubljana and where I personally spent eight weeks on a mini-sabbatical at Colorado State University, this summer has been spent closer to home. A relaxing and much-needed family holiday in Denmark and Sweden and the late summer working on putting together a research concept and strategy for future crop protection research at Rothamsted. Fingers crossed!

Back in June, we held EWRS Scientific Committee and Board meetings in Amsterdam – thanks to Lammert Bastiaans, the EWRS Secretary for organising and hosting, and thanks as always to the many colleagues from all parts of Europe who give up their weekends to attend these meetings and ensure the continued life and vibrancy of the Society. This time we also welcomed some ‘guests’ to these meeting – Camilla Moonen in her role as EWRS Communication Officer, Alison Haughton as the new Editor-in-Chief for Weed Research and Peter Witjes, the CEO of Creative Performers United (CPU), the company that are designing the new EWRS web site. It is exciting to see progress on the new external web site and membership site – Peter and his team have some excellent ideas and the draft designs they presented were fresh and vibrant. Thanks to Camilla for working hard with CPU over the last few months. We hope the new site will be ‘live’ by the end of the year, possibly before.

At the meetings, Alison Haughton also presented her vision and ideas for our Weed Research journal. The journal continues to earn a lot of money for the Society and the publishers Wiley are doing a great job in increasing income year on year. However, we have been told that there are some challenging times ahead for the journal as academic publishing moves more and more to an Open Access model, meaning that it is likely in future that submissions and numbers of published articles in the journal will have to increase to maintain income. At the meeting, Alison presented a number of ideas to increase submissions as well as to address the scope and ambition of the journal as we move into the 2020’s.

As we move towards the new web site and as Camilla establishes a Communication strategy for the EWRS, we will be moving away from the current pdf version of the newsletter and towards a much more dynamic and modern web-based format where members will be posted a regular bulletin, giving links to interesting and recent news and updates from the web site. Once again, a much-needed move into the 2020s! As such, and as I approach the end of my period of Presidency, this may be my last President’s message posted in this format. I would like to thank all the Board and Scientific Committee members that have helped and supported me during this time. I certainly have a far better understanding of the great deal of voluntary time, effort and commitment that people put into service for the Society. I still have four months left, so there is still much to do. As President, it is hard to find the time do all the things you would like to. For my part, I wanted to introduce a few fresh ideas to the symposium, establish a new web site and Communication Officer role and in recent times work more closely with Wiley publishers and the new EiC to ensure the continued success of Weed Research. By the end of 2020, when I step down, I hope some of those efforts will have to fruition.

Best Wishes,
Paul Neve

EWRS President.
ELECTIONS FOR THE BOARD OF THE EWRS IN SEPTEMBER 2019

This year there will be elections for a number of positions within the Board. The elections will be held from September 1 – September 21, 2019. The elections will be held for the following positions:

- **Vice-President** – every two years a new Vice-president is elected. The elected Vice-President will serve in that position for two years and will then automatically advance to the position of President. After the two-year period as President, the elected candidate will stay member of the Board for another two years.

- **Treasurer** – the elected Treasures will serve for four years and is eligible for re-election for one more term. Ben Post has served for many years now, as in a number of occasions no other nominations were received. The Board then decided to re-appoint Ben Post in this position.

- **Secretary** – the elected Secretary will also serve for four years and is eligible for re-election for one more term. Lammert Bastiaans currently serves in his first term.

- **Two additional Board members** – additional board members serve for four years. At the end of this year, Lena Ulber and Willy Rueegg have served for four years and will be replaced by two new members.

The election committee,
Alicia Cirujeda, Ilias Travlos and Lammert Bastiaans
The EWRS working group Weeds and Biodiversity held a 2-day meeting at University of Hohenheim, Germany, from 17 to 19 June 2019. The workshop was attended by some 21 participants from 10 countries. The program was, as always, diverse and included five scientific sections, two new topics for collaboration, a discussion on WG activities and future, and an excursion to the nature conservation area Rangendingen, with an abundance of beautiful, rare arable species and enthusiastic managers.

The workshop hosted five sessions with scientific contributions:

- 'Weed diversity and farming systems' (4 contributions)
- 'Weed surveys and databases' (4 contributions)
- 'Rare arable weed species' (3 contributions)
- 'Biotic interactions and seed predation' (4 contributions)
- 'Ecosystem services by weeds' (4 contributions)

The proceedings of the workshop and individual presentations will be uploaded onto the Weeds and Biodiversity WG pages of the EWRS website (http://www.ewrs.org/biodiversity/) as soon as all contributions have been received. As always in our WG, the presentations were followed by open and informal discussions.

Following the session ‘Weed surveys and databases’, Jana Bürger and Helen Metcalfe proposed a new initiative to gather, combine, describe and analyse weed surveys originating from different countries. Available data sets, relevant research questions, contributing participants and division of tasks were discussed. In addition, Stefano Carlesi proposed an initiative on ecosystem services provided by weeds. The objective is to experimentally measure and quantify ecosystem services, using a standard protocol, but different ecosystem services. Extensive information on these two new initiatives, including contact information of the initiators, will be posted on our website in due course (http://www.ewrs.org/biodiversity/).

Progress and future of the initiative ‘weed seed predation’ was discussed on the final day of the workshop. Following the workshop in Pisa (2014), four participants have been engaged in a joint experiment to establish the identity of weed seed predators in previously untested locations. However, the initiator of this initiative, Paula Westerman, has changed jobs and is no longer working in the field of weed seed predation. Hana Foffová and Matthias Schumacher will continue working on the trials and the analyses of the joint data sets.

Matthias Schumacher’s status as deputy of the WG was formalized. Next year, Paula Westerman will step down as WG coordinator. The election of a new coordinator will take place following the rules of the EWRS during the next meeting, which will be held in Prague in 2020 and hosted by Pavel Saska and Hana Foffová.

The workshop was a success thanks to the excellent preparation and organisation by the local organiser, Matthias Schumacher and his assistants, and the enthusiastic input and contributions of all participants. Many thanks to all!

WG coordinator; Paula Westerman
WG members on the steps of the “Schloss” at Hohenheim

Impression of the visit to the beautiful nature conservation area of Rangendingen.
Member Contributions

The Histology of Pondweed or Potamogeton spp

Dear colleagues,

Pondweed or *Potamogeton* species may cause serious problems in waterways, canals, irrigation systems, lakes and ponds. On the other hand, they provide food and shelter for fish, birds and a number of aquatic organisms. Often, they heavily dominate and cover the whole water surface (Figure 1). Holm et al. (1997) dedicate 27 pages to these characteristic aquatic weeds. They list three Potamogetons of special importance with *Potamogeton pectinatus* L. (Bayer or EPPO Code PTMPPE), today *Stuckenia pectinata* (L.) Börner, as the most wide-spread species followed by *Potamogeton crispus* L. (PTMCR) and *Potamogeton natans* L. (PTMNA). Catling and Dobson (1985) published a monography on *P. crispus*.

The genus *Potamogeton* comprises around 70 species and 50 defined hybrids (e.g. Zhang et al. 2009). Their identification is not always easy. Van de Weyer et al. (2011) use histological characteristics for the identification of species. Today, DNA markers can be used for this purpose (Kuzmina et al. 2018).

The pondweed family (Potamogetonaceae) is a group of aquatic angiosperms from the order Alismatales.

*Potagemon* species develop spike-like inflorescences with bi-sexual flowers (Figure 2). These are wind pollinated. Fruits are shown in Figure 3. Vegetative propagation is quite common also. A typical propagule form are tubers as shown in Figure 4. Turions are another form of propagules. Pieces of rhizomes and stolons are often separated from the mother plant and form new colonies.

Phenotypic plasticity as known of other aquatic plants (Kraehmer 2016) is characteristic of many *Potamogeton* species and leads for example to different leaf forms within the same species (compare the thin leaf shown in Figure 6 with the one in Figure 3). This phenomenon was stressed by a number of scientist as for example by Wiegleb and Kaplan (1998).

Habitats of different species may vary considerably. *Stuckenia pectinata* (L.) Börner syn *Potamogeton pectinatus* L usually colonizes disturbed and heavily polluted aquatic communities and tolerates anoxia (Dixon et al. 2006). Other species only grow in clear water.

Figure 1: *P. natans* in a pond near Ulm, Germany

Figure 2: *P. nodosus* spike-like inflorescence
Figure 3: *P. natans* fruits

Figure 4: Turber of *S. pectinata*

Figure 5: *P. perfoliatus*

The stem of Potamogetons consists of peripheral aerenchyma very similar to that of *Pontederia cordata* described in Newsletter145. Aerenchyma canals are usually interrupted by diaphragms as shown in Figures 7 and 8. The central stele is surrounded by an endodermoid (Figures 7, 9 and 10). The shape of the endodermoid cells can be used for the differentiation of species (Van de Weyer et al., 2011).

Figure 6: Thin leaf of *P. natans*

Figure 7: Transverse section of *P. natans* stem with central stele; Etzold blue, 80x
The roots of Potamogeton species are surrounded by a rhizodermis which is followed by a cortex with some intercellular space (Figure 11). The center exists of a stele surrounded by an endodermis with many gaps (Figure 12).

H. Krähmer

References


Kuzmina ML, Braukmann TWA, Zakharov EV. 2018. Finding the pond through the weeds: eDNA reveals underestimated diversity of pondweeds.
The 27th Asian-Pacific Weed Science Society Conference (APWSS 2019)

in Kuching, Sarawak, Malaysia
3-6 September 2019

The theme will be “Weeds Science for Sustainable Agriculture and Environment”. This will be a significant event to all the researchers, practitioners and consumers to meet and discuss the development and challenges in weed management. This conference is jointly organized by APWSS and Malaysian Plant Protection Society (MAPPS). We are confident that you will enjoy the conference in Kuching, Sarawak, Malaysia’s beautiful city and discuss new developments and future directions of weed management with Weed Scientists from around the world. Other details about the conference may be obtained from: https://apwss.org/ or https://www.apwss2019.org/

The conference will cover a wide range of topics regarding weeds, invasive weeds and their management; weeds ecology, biology, physiology, integrated weed management in cropped areas, non-cropped areas and aquatic systems; herbicide tolerant crops; herbicide resistant weeds; allelopathy; biological weed control; impact of climate change on weeds and weed management; herbicide behaviour on soil and water; education and extension in weed science; herbicide formulations and application technology; novel herbicides and their mode of action; utilization of weeds; precision and advanced weed management technologies.

Keynote speaker is Prof. Stephen Powles of the University of Western Australia, Perth, Australia who will be making key note presentation on: “Herbicide Resistance and its Management in Asian Pacific: Challenges and Opportunities”. The plenary presentations will be made by Prof. Robert Zimdahl (U.S.A.) on “Agriculture’s Ethical Horizon: The Role of Weed Science in Sustainable Farming”; Prof. Stephen W. Adkins (Australia) on “Impact of Climate Change on Weed Management”; Dr. Do-Soon Kim (South Korea) on “Plant Image Science (Plant Phenomics) as a New Tool for Weed Research”; Dr. Shiv Shankhar Kaundun (U.K.) on Evolution and Non-Target Site Resistance Mechanism in Weeds; Dr. Michael D. Day (Australia) on “Biological Weed Control: Challenges and Opportunity”; Dr A.N. Rao (India) on “The Progress and future of Weed Science in the Asian Pacific region”; Prof Dr. Samunder Singh (India) on “Ecobiology and Management of Phalaris minor”.

Conference Fee

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<tr>
<td>International Participant</td>
<td>USD 350</td>
<td>USD 400</td>
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<tr>
<td>International Student</td>
<td>USD 250</td>
<td>USD 300</td>
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<tr>
<td>Local participant</td>
<td>MYR 950</td>
<td>MYR 1000</td>
</tr>
<tr>
<td>Local student</td>
<td>MYR 650</td>
<td>MYR 700</td>
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Dear Colleagues,

This event is organized by the Weed Mapping Working Group and will be supported by the European Weed Research Society (EWRS) in cooperation with two Universities, the Agricultural University of Athens and the Czech University of Life Sciences Prague. The idea is that participants will arrive on September 15th and depart on September 19th. Information on the venue can be found here: http://confer.maich.gr/

General information on the Advanced Workshop which will also appear on the working group web site: http://www.ewrs.org/weedmapping/default.asp

The aims
i. an update of the existing scientific community on the technical and scientific progress in mapping science;
ii. the documentation of practical aspects and the demonstration of innovative mapping tools in the field;
iii. a discussion of weed mapping as part of digital farming.

Scientific programme
The workshop aims to be informal and so stimulate as much discussion as possible among participants. We will combine plenary scientific sessions with oral and poster presentations, practical training on field using novel tools in weed mapping and training in class on weed maps production using software and geodatabase.

Below is the list of topics:
- Phytosociology and weed science
- Spatial issues in weed distribution and weed shifts
- Novel detection tools in weed mapping
- Mapping of invasive weeds / resistant weeds / rare weeds
- Data processing
- Spatial interpolation, geostatistics and regional mapping
- Advances in precision weed mapping. Automatic systems for weed monitoring
- Transfer of field data into available software and databases
- State-of-the-art of SDSS (spatial decision support systems)

Target Group
30 PhD and Post doc students, experienced “weed” and “plant ecology” scientists and a limited number of professionals.

Important dates:
- Deadline for submission of abstracts by July 20th
- Decision on accepted contributions by August 1st
- Expected payments for registration by August 20th
- 3rd Circular (final scientific program, additional information, travel, etc) by August 31st

Registration fees
Early bird fees should amount to 350€. Late registrations should result in fees of 400€. The fees include hotel accommodation in MAICH dormitories with breakfast, welcome party, lunches and farewell informal dinner.
Organizing Committee
Professor Falia Economou (economou@aua.gr), Agricultural University of Athens.
Dr. Hansjoerg Kraehmer (Kraehmer-Hofheim@t-online.de), former EWRS President.
Michaela Kolarova (mkolarova@af.czu.cz), Assistant Professor, Czech University of Life Sciences Prague.
Dimitra Doulfi (dimdoulfi@yahoo.gr), MSc student, Agricultural University of Athens.

Accommodations and meals:
Participants in the workshop will have accommodations in MAICH dormitories and lunches at the MAICH restaurant. All the rooms are air-conditioned, have private facilities and will be booked on a first come first served basis.

How to reach Chania and the Conference centre:
http://confer.maich.gr/info/travel.html#chania
Chania is a famous holiday resort with various options to reach from European countries. Please check the connections at your travel agencies and airlines.

Provisional programme

**Sunday Sept 15th**
- Arrival, sightseeing, etc.
- Afternoon and evening: Registration
- Welcome drink and dinner

**Monday Sept 16th**
- 8:00 - 10.00 Registration
- 9:00: Welcome address and general announcements
- 09:15 – 10:15 **Session 1 - H Kraehmer**  
  Introductory and overview presentation
- 10:15 Break
- 10:45 – 12:30 **Session 2 - F Economou- M Kolářová**  
  Classical weed survey methods
- 12:30 Lunch
- 14.00 – 15:30 **Session 3 - H. Eizenberg – V. Alchanatis**  
  Advances in precision weed mapping. Automatic systems for weed monitoring
- 15:30 Break
- 16:00 – 17:30 **Session 4 - R. Lati**  
  Site specific weed management

**Tuesday Sept 17**
- 8:00 to 10 Registration
- 9:00 – 10: 15 **Session 5 - S. Kalivas**  
  Introduction to automated weed mapping
- 11:00 -12:00 **Poster discussions**
- 12:30 Lunch
- 15:15 – 17.00 Unmanned vehicle and mobile application demonstrations in the field
- Evening: Party / Social event

**Wednesday Sept 18**
- 9:00 – 10: 15 **Session 6 – J Holec, A Uludag**  
  Status of rare and invasive weed mapping
- 10:15 Break
- 10:45 – 12:30 **Session 7 - J Salonen**  
  Spatial issues in weed distribution. Dominating weeds, change of composition over time, weed infestation and influence factors
- 12:30 Lunch
Dear colleagues,

As chair of the Organizing Committee, this is to inform you Board of the EWRS about the upcoming XVII Congress of the Spanish Weed Research Society (SEMh), which will take place in Vigo, from 8 to 10 October 2019.

Under the slogan "new strategies for new challenges", the research group of the University of Vigo 'Plant & Soil Science' (http://agrobiologia.webs.uvigo.es) and our colleagues from the Misión Biológica de Galicia (CSIC, Spanish Research Council), are organizing with joy this next congress of the SEMh.

We are very honoured to be the hosts of this biannual event, which is the main scientific meeting of research and transfer in the field of Weed Science in Spain. As it has been since the first congress in 1990, we will offer the ideal forum to communicate and discuss the latest advances in different areas of knowledge, exchange ideas, and welcome the youngest members involved in weed research.

At the congress website (https://semh2019.gal/) you can find all the updated information on the XVII Congress of the Spanish Weed Research Society: detailed composition of the Organizing Committee, highlighted dates, invited conferences. Following the line of the past Congresses, we want to go in depth into the progress towards control strategies that allow integrated and sustainable weed management, open up even more to innovation, and intensify communication and interdisciplinary collaborations. For this, we have structured the Congress in six thematic sessions:

- Search for herbicides with new modes of action
- Chemical control and resistance to herbicides
- Integrated weed management
- Eco-innovative strategies
- Weed diversity, stability, and ecosystem services
- Biology and management of invasive weed species

We will also have four lecturers of international renown in the field of Weed Science, who will open the different thematic sessions. We will count as guest speakers with:

- Fabrizio Araniti (Dipartimento AGRARIA, Università Mediterranea di Reggio Calabria, Italy)
- Nilda R. Burgos (University of Arkansas, USA)
- Jordi Recasens (Universitat de Lleida, Spain)
- Rodrigo Medel (Universidad de Chile, Santiago, Chile)
The congress includes a technical visit to the Misión Biológica de Galicia (Pontevedra), a center of the Scientific Research Council (CSIC) in the area of Agricultural Sciences, which will offer a guided tour of the different research departments, including their experimental facilities and field trials (http://www.mbg.csic.es/es/la-mision-biologica-de-galicia).

By the way, the international companies ASCENZA, FMC, and Syngenta have confirmed their sponsorship, including registration fellowships for young researchers.

Early registration will be open until July 15th, 2019. Although sending of complete communications for national attendees will close on May 31st, it is still possible to send international communications (in English or Spanish) from EWRS members and friends till June 20th, 2019.

For your knowledge and possible collaboration, Prof. Nilda Burgos has expressed interest in visiting research groups and facilities around Spain and Europe, so I consider this might be a special occasion to plan a kind of meeting ("informal", as she said) with the EWRS board and members, especially with those of the Weed Resistance working group. So, please, let me know your view on this.

Thank you very much for your attention. Please do not hesitate in asking for further information.

Yours sincerely,

Nuria Pedrol
Chair of the Organizing Committee

EWRS WORKING GROUP MEETING ON SITE SPECIFIC WEED MANAGEMENT

University of Southern Denmark Odense, Denmark
30 October - 1 November 2019

Recent progress in research and engineering of weed sensing, data science, precision sprayers and robotics have made it possible to automate weed identification, weed mapping and site specific control of weeds with advanced sprayers and robots. At this workshop in Odense, we will share these latest progresses and discuss how they enables answering scientific questions and practical applications. The workshop starts with the keynotes:

- ‘Dealing with images from drones - using standard image processing and deep learning’ by ass. prof. Henrik Skov Møttiby, Maersk Institut, University of Southern Denmark
- ‘Advanced data fusion for weed mapping’ by Dr. Tarin Pas-Kagan ARO, Israel

The format of the workshop will be a mixture of presentation composed from the submitted abstracts and group discussions. In addition, ass. Prof. Jesper Rasmussen and research ass. Saiful Azima hold a special tutorial workshop on how to map weed density with your mobile phone and QGIS.

The weather in Odense in the end of October is cool-cold. It is autumn with average temperatures between 5-to-10 ºC during the day. Approximately 9 h of light: sunrise around 6:30 am and sunset around 5 pm.

Participation

If you would like to participate and contribute to the workshop, please send an abstract to Ran Lati ranl@volcani.agri.gov.il. In order to allow high quality discussion and activities we will be happy to know as earlier as possible and no later than before 30. August 2019 if you are interested and planning to come. We have funds to support up to five students and young scientists according to the EWRS rules. Please encourage your students to attend the joint workshop. If you are interested, please send your application and an abstract to Ran Lati ranl@volcani.agri.gov.il before 30. August 2019.
Preliminary program
Tuesday, 29 October: Arrival and Registration
Wednesday, 30 October and Thursday 31 October: Keynote, talks and discussions will be composed and announced in the second circular.
Friday 1 November: Visit at Gyldensteen Manor that has a large production of onions and pumpkins. The farm collaborates with University of Southern Denmark, Aarhus University and the company AgroIntelli [http://www.agrointelli.com/](http://www.agrointelli.com/) on applying robotics and precision agriculture.

Organizing Committee
- Chairman prof. Svend Christiansen: Department of Plant and Environmental Sciences, University of Copenhagen, Denmark
- Vice-chairman ass. prof. Ran Lati: Agricultural Research Organization (ARO) the Volcani Center, Newe Ya’ar Research Center, Israel
- Ass. prof. Hanan Eizenberg – Agricultural Research Organization (ARO) the Volcani Center, Newe Ya’ar Research Center, Israel.
- Ass. prof. Henrik Skov Midtiby – Mærsk Institute, University of Southern Denmark (SDU).

Venue
University of Southern Denmark (SDU) – Odense, Denmark (details tbd).
Field Trip to Gyldensteen Gods.
Connections from airport to the Workshop's place University of Southern Denmark:

By car: Please use the information on [https://www.sdu.dk/da/om_sdu/konferencefaciliteter/koerselsvejledning](https://www.sdu.dk/da/om_sdu/konferencefaciliteter/koerselsvejledning)

Arriving by Plane
Fly to Copenhagen (CPH) and then take a direct train to Odense.

Arriving by Train
Multiple bus routes connect the train station with university campus. There are approximately ten minutes between departures.

Accommodation
A few hotels are close to the workshop venue at SDU. Participants can book directly at Hotel Odense (a part of the Odense Congress Center right next to SDU), Knudsens Gaard, or at the nearest hostel - Kragsbjerggaard. Odense is a large city and has a number of hotels that can be booked via [www.trivago.dk](http://www.trivago.dk) or [www.hotels.com](http://www.hotels.com). Odense city buses connect to buses to the University. You can also use city bikes that you can borrow free or rent at a cheap price. There are bike paths throughout Odense and the distance to the university is less than 7-8 km if you rent a hotel in Odense.

Deadlines
- First circular: July 2019
- Receiving abstracts: 30 August
- Second circular: 5 September
- Deadline for registration: 30 September
- Third circular with final program: 10 October

A registration fee of 100 Euro will be charged to cover lunch and dinner on 30 and 31 October.
A registration fee of 75 Euro will be charged to cover the transport and lunch for the field excursion on the 1st of November.
EWRS Education & Training: Herbicide Resistance Identification Training

Antalya Turkey
5-7 November 2019

The EWRS Education & Training Task Force is organizing a 3-day in-depth training course on herbicide resistance identification from 5 to 7 November 2019. The course is aimed at students, Ph.D. candidates and postdocs actively involved in research on herbicide resistance.

In this course, we will provide an overview of concepts and tools that can be used to identify resistant weed species and populations. More specifically, the focus of the course will be on:

1. Material collection & sampling design.
2. Test methodology (use of different test systems, use of reference populations, statistical analysis).
3. Results interpretation, conclusion & publication.
4. Mapping of monitoring data and databases.

The course will be completed by a half day field and greenhouse excursion. Aside from deepening your scientific knowledge, this course also offers an excellent opportunity to broaden your network and to interact with established herbicide resistance scientists. Additionally, students can be awarded 2 ECTS-credit points from Ondokuz Mayis University (Turkey) when successfully participating in the course.

Lecturers
- Dr. Deepak Kaundun (Syngenta, Jealott’s Hill International Research Centre, UK)
- Prof. Dr. Garifalia Economou-Antonaka (Agricultural University of Athens, Greece)
- Prof. Dr. Josef Soukup (Czech University of Life Science Prague, Czech)
- Prof. Dr. Hüsrev Mennan (Ondokuz Mayis University, Turkey)
- Dr. Lena Ulber (Julius-Kuehn Institut, Germany)
- Other lecturer to be announced

Venue
The course will take place at the Concorde de Luxe Hotel, Antalya (Turkey). The hotel is located 10 km from Antalya airport and can be easily reached with a 15-minute drive by taxi.

Course Organisers
- Prof. Dr. Hüsrev Mennan (Ondokuz Mayis University, Turkey, hmennan@omu.edu.tr)
- Prof. Dr. Garifalia Economou-Antonaka (Agricultural University of Athens, Greece)
- Dr. Willy Rueegg (Syngenta, Switzerland)
- Dr. Lena Ulber (Julius-Kuehn Institut, Germany)

Accommodation
Accommodation is also offered in the Concorde de Luxe Hotel. Accommodation costs for 3 nights including all meals and beverages are kindly covered by the training course sponsor (Syngenta) for participants sharing a double room. For accommodation in a single room, participants will have to pay 40€/night additionally. If students are planning to stay an extra night before or after the event; the following special rates from Concorde de Luxe Hotel with will apply (including all meals and beverages): Single room: 68€ / Double room: 80€ / Three bedroom: 108€.

Fees and costs
There is no fee to attend the course which will be limited to a maximum of 20 attendees. EWRS will offer travel grants for young scientists (i.e. Master-students, PhD-students and scientists younger than 35 years of age) consisting in a partial refund of their travel expenses. Travel grants can be applied for by sending an e-mail to Husrev Mennan (hmennan@omu.edu.tr) and Lena Ulber (lena.ulber@julius-kuehn.de) not later than 28 June 2019.
The maximum amount of the travel refund is €500. If the applicant is not an EWRS-member, an amount equal to the yearly EWRS fee (€30 for students and €60 for regular members) will be deducted from the subsidy, and the applicant will be enrolled in EWRS for a year. Applications for the travel grant need to include in their e-mail:

- A short motivation letter
- A brief curriculum vitae
- An estimate of the costs for accommodation (only if single room required) and travel
- A statement from the home institute that they will cover the remainder of the expenses for travel and accommodation, should the travel grant be awarded.

Successful applicants will be informed about the allocation of subsidy by the organizers in due time. The EWRS does not provide the subsidy in advance. Travel expenses will be reimbursed to subsidiaries by bank transfer after active participation in the workshop. Details on reimbursements and declaration forms will be provided later on by the EWRS Treasurer.

**Registration**

Please send your registration by e-mail to Husrev Mennan (hmennan@omu.edu.tr), copy to Lena Ulber (lena.ulber@julius-kuehn.de) until **28 June 2019** with the course application form attached you can download at [http://www.ewrs.org/doc/EWRS_training_Antalya_course_application.doc](http://www.ewrs.org/doc/EWRS_training_Antalya_course_application.doc). Participants applying for the travel grants should also attach the above-mentioned documents.

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**JOINT WORKSHOP OF THE EWRS WORKING GROUPS "PHYSICAL AND CULTURAL WEED CONTROL" AND "WEED RESISTANCE"**

6-7 April 2020
Lelystad, the Netherlands

The joint workshop is entitled “Physical and cultural weed control tools and their influence on herbicide resistance evolution”. During this workshop we will have an excursion day with visit of field trials on physical and cultural weed control tools, and a visit to companies working in the field.

The second day will be dedicated to the discussion on the efficacy of physical and cultural weed control tools (crop rotation, cover crops, mechanical weeding, physical weeding), and their possible use in the context of herbicide resistance evolution and management will be discussed.

Proposals for contributions are welcome and can be send to both Roland Beffa and Marleen Riemens, but we will send a call in due time. Welcome and arrival on April 5th

Best wishes
Roland Beffa and Marleen Riemens
[Roland.beffa@bayer.com](mailto:Roland.beffa@bayer.com) / [Marleen.riemens@wur.nl](mailto:Marleen.riemens@wur.nl)

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**NEXT ANdINA WORKSHOP IN EUROPE**

Romania, June 2020

A number of EWRS members have been to the highly successful and provocative ANdina international workshops ([https://andinabbar.weebly.com/workshops.html](https://andinabbar.weebly.com/workshops.html)). In February 2020 we will meet in the Australian Alps to debate policy and procedural impediments to the achievement of broad-scale management of invasive species, while in June 2020 in Romania we will critique the fundamental approaches taken by ecologists. For more information, please contact Roger Cousens [rcousens@unimelb.edu.au](mailto:rcousens@unimelb.edu.au).
**Upcoming Conferences and Workshops**

**The 27th Asian-Pacific Weed Science Society Conference (APWSS 2019)**
Kuching, Sarawak, Malaysia
3-6 September 2019
https://www.apwss2019.org/

**Advanced Workshop on Weed Mapping as a Tool in Plant Ecology and Weed Management**
Mediterranean Agronomic Institute of Chania, Crete, Greece
16 – 18 September 2019
www.ewrs.org/weed_mapping.asp

**XVII Congress of the Spanish Weed Research Society (SEMh)**
Vigo, Spain
8 - 10 October 2019
https://semh2019.gal/

**EWRS Working Group Meeting on Site Specific Weed Management**
University of Southern Denmark Odense, Denmark
30 October - 1 November 2019
ranl@volcani.agri.gov.il

**EWRS Education & Training: Herbicide Resistance Identification Training**
Antalya Turkey
5-7 November 2019
hmennan@omu.edu.tr / lena.ulber@julius-kuehn.de

**XIX International Plant Protection Congress - 2019**
Hyderabad, India
10 – 14 November 2019

**Joint workshop of the EWRS Working Groups "Physical and Cultural Weed Control" and "Weed Resistance"**
Lelystad, the Netherlands
Roland.beffa@bayer.com / Marleen.riemens@wur.nl

**24th Columa Conference**
Orléans, France
3 - 5 December 2019
http://www.vegephyil.fr/

**60th Annual Meeting of the Weed Science Society of America (WSSA) and the 73rd Annual Meeting of the Western Society of Weed Science (WSWS)**
Hyatt Regency in Lahaina, Maui

**Andina Workshop in Europe**
Romania
June 2020
https://andinabbar.weebly.com/workshops.html

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From October 2019 the Newsletter will be part of the new EWRS website and news items will be published regularly on-line. Do not hesitate to contact me for questions and information about how to submit your contributions.