



ENDURE

European Network for Durable Exploitation of crop protection strategies

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List of courses available in 2009 to MSc and PhD students on crop protection related subjects.

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RE Restricted to a group specified by the consortium (including the Commission Services)	
CO Confidential, only for members of the consortium (including the Commission Services)	

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Glossary

ENDURE European Network for Durable Exploitation of crop protection strategies

Definitions

COURSES Events such as workshops, training courses, satellites of conferences wich may be of and educational interest for both MSc and PhD students in Crop-protection subjects.

KML File format used by Google Map Service in order to display geographical data

RSS ReallySimpleSyndication: web format used to publish frequently updated works

GeoRSS RSS service for spatial data

Summary

The objective of the task was to collect information on courses on crop protection issues aimed at MSc and PhD students. We searched for these events browsing the Internet searching for crop-protection related keywords.

We found 47 courses and a database containing all the collected data related to those courses has been built. In order to make the results available to the public in an easy and appealing way, we built a geographical map using Google Map standards so that it will be possible for the ENDURE IT technicians to upload this map to the main ENDURE web site.

We did not limit our search to Europe, but searched for courses all over the world. No other ENDURE partners took part in this activity.

1. Introduction

Establishing scientific relationships and improving knowledge is a fundamental step in the career of any young researcher and taking part in courses focused on specific research areas is a good opportunity for improving both aspects. These courses may be long residential ones dealing with complex themes (e.g. Summer or winter schools - like the 1st and 2nd ENDURE Summer Schools) or short one- or two-day events focused on very specific topics. Even though most of these events are advertised through the Internet (hence applications are accepted from any scientist), they are often known only by those researchers who are, for any reason, related to the promoting institutions (e.g. they belong to the same Institution or are affiliated to a Scientific Society promoting the event). Having a central database containing information about planned courses aimed at MSc and PhD students dealing with crop protection issues could be useful for both students willing to improve their education (the website could become the preferred place for them to search for educational opportunities) and Institutions willing to advertise their courses.

Building this database and making it available on line on the main ENDURE web site could be a strategic choice for the ENDURE project since it may increase its visibility and importance within the crop protection scientific community at large.

2. Aim of the Task

The objective of this subtask was to collect information about courses planned all over the world on crop protection issues (summer schools, winter schools, training courses, etc.) aimed at MSc and PhD students, to build a database with such information and to make it public through the ENDURE web site.

3. Methodology

Since the Internet is nowadays the preferred way for advertising scientific events, we made an intensive use of the web in order to gather the information we needed. We searched for such information in two main ways:

- by using keywords related to *crop-protection* and *education* on web searching engines and then browsing the resulting web sites;
- by direct browsing web pages of well known scientific Institutions (Universities, Department, Scientific Societies, etc.) who are known to provide courses for young scientist on themes related to crop-protection (eg. EWRS, IOBC, etc.).

We built a simple database in order to collect the gathered data in a structured way: for each event we recorded the following fields:

1. name of the organizing Institution
2. title of the event
3. location
4. day of beginning - day of end
5. link to the web page dedicated to the event
6. geographic coordinates (obtained by Google Maps,

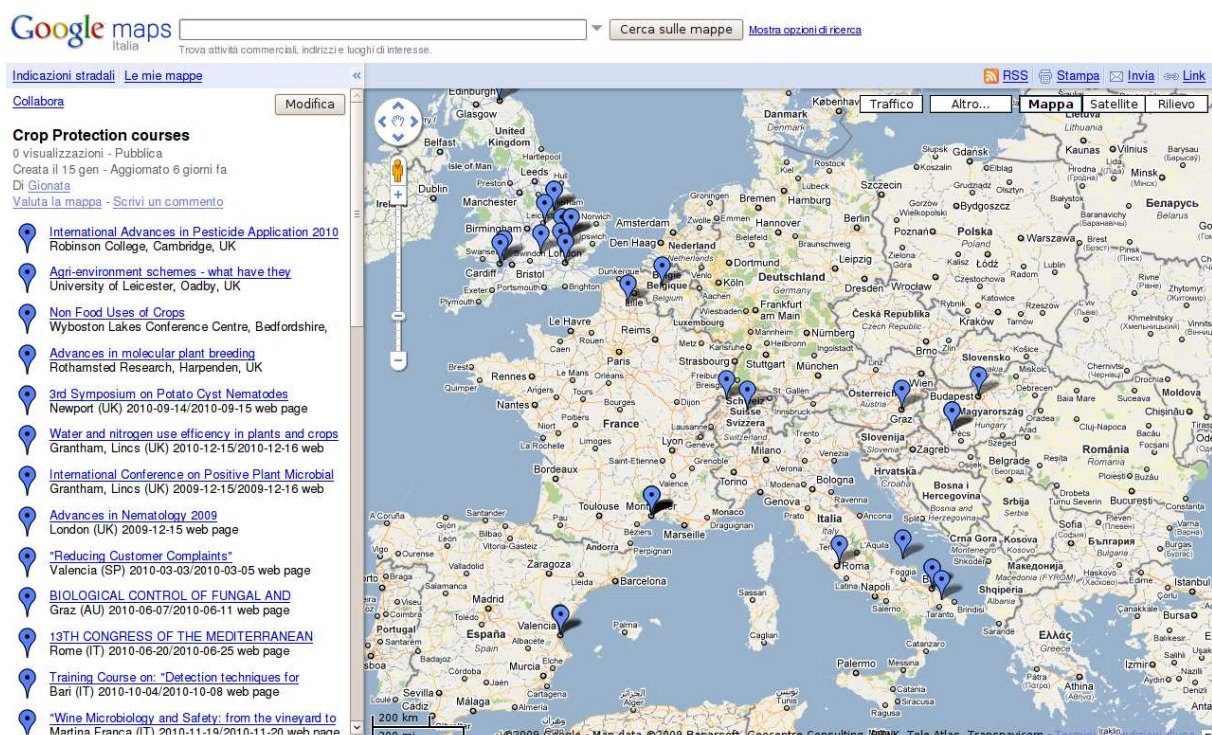


Image 1: Google Map representation of collected data about courses on crop protection.

<<http://maps.google.com/>>) of the place which will host the event

Since all collected data have a geographical localization (point (6) of the above described list), we decided to show them on a geographical map, since this kind of data are very common nowadays and can be easily browsed and queried by anyone. We hence decided to include data inside a kml file - which is the file format used by Google Maps to show geographic data – so that it will be possible to have a dedicated web page on the ENDURE web site showing the resulting map: in this map each event will be shown as a geographical bookmark corresponding to the course location and showing a pop-up message containing a description of the event (see figure 1 for an example of a Google Map showing this kind of data) . The map has been sent to the ENDURE IT technical task force (IA4.2) in order to have it placed inside the ENDURE main web site as soon as possible.

4. Results

We have found 47 courses which may be of interest for students (both MSc and PhD) working on crop protection. These events are located all over the world, but most of them are planned in the United Kingdom. The complete list is shown in Appendix A.

5. Problems faced & next steps

Browsing the web searching for information is a very time consuming activity, even though it proved to be rewarding in terms of collected data. Searching for specific educational events on crop protection is neither a simple or a plain task since most of the information available on the internet is related to either MSc or PhD free positions (wich were not interesting for this task), so we had to go through hundreds of web pages one-by-one to discover what they were advertising.

We believe that this “manual search” activity could be reduced in the near future if the web map on the ENDURE web site became appealing for both students willing to take part in a course and Institutions willing to promote the events they organize: if this happens, there is the chance that the latter will ask ENDURE project managers to host the advertisements on the ENDURE web site, thus playing an active role in the process of information update.

The process of updating the map is not efficient at the moment since each time an item is updated the map needs to be re-built and re-uploaded on the web site: if this web service will be considered valuable for the ENDURE promotion, we think that it should be refined and a better informatic system should be set up (e.g. there should be a separate database for storing the data and the web map should query that database selecting only those events which have not taken place yet).

If technically feasible, we will suggest the ENDURE IT technical task force (IA4.2) to implement a GeoRSS service so that people interested in these kind of events could subscribe to this service thus obtaining info every time a new item is uploaded to the map.

In the resulting database a strong predominance of courses held in English-speaking countries can be observed: we think this bias is mainly due to the language used for advertising these events. English is the “lingua franca” for scientific communications, but we have nevertheless noticed that in many cases Institutions of non-english-speaking countries tend to use their own languages for promoting events, especially for those courses which are not linked to relevant scientific events (eg. International conferences): it was thus difficult for us to find information about those courses. We believe that in case the map on the ENDURE web site becomes an efficient tool for promoting events, Institution willing to advertise a course will agree on translating the event's announcement in English in order for the advertisement to have a greater communicative impact.

We think that the created Google Map may provide a good service to the ENDURE project since it may attract both young researchers and senior scientists belonging to non-ENDURE Institutions. If properly set up, the “*database-google map*” system would be easily maintained with a reduced effort in terms of money and time, so we think it may be worthwhile to keep it up and running even after the conclusion of the ENDURE project since it will help in keeping connected Institutions and researchers all across Europe.

Conclusion

Courses on crop protection subjects aimed at MSc and PhD students have been censused using the Internet. All collected data have been first included in a database which was later converted to an electronic geographical map: this map has been sent to the ENDURE IT technical task force (IA4.2) for uploading to the ENDURE website. The map could hopefully become an attractive “virtual place” for scientists working on crop protection issues willing either to attend or to promote a course.

Appendix A. List of courses on crop protection

In the following list we report all the events found; for each event we report the organizing institution, the name of the event, the place where the event will be held, the date, the link to the webpage, and the spatial coordinates of the event.

The Association of Applied Biologists

International Advances in Pesticide Application 2010

Robinson College, Cambridge, UK

2010-01-05/2010-01-05

<http://www.aab.org.uk/contentok.php?id=82&basket=wwsshowconfdets>

52.205086,0.105354

The Association of Applied Biologists

Agri-environment schemes - what have they achieved and where do we go from here?

University of Leicester, Oadby, UK

2010-04-27/2010-04-29

<http://www.aab.org.uk/contentok.php?id=91&basket=wwsshowconfdets>

52.608781, -1.092424

The Association of Applied Biologists
Non Food Uses of Crops
Wyboston Lakes Conference Centre, Bedfordshire, UK
2010-05-10/2010-05-11
<http://www.aab.org.uk/contentok.php?id=93&basket=wwsshowconfdets>
52.20697550162098, -0.2905583381652832

The Association of Applied Biologists
Advances in molecular plant breeding
Rothamsted Research, Harpenden, UK
2010-06-08/2010-06-09
<http://www.aab.org.uk/contentok.php?id=92&basket=wwsshowconfdets>
51.809568, -0.356308

The Association of Applied Biologists
3rd Symposium on Potato Cyst Nematodes
Newport (UK)
2010-09-14/2010-09-15
<http://www.aab.org.uk/contentok.php?id=94&basket=wwsshowconfdets>
51.587741, -2.998343

The Association of Applied Biologists
Water and nitrogen use efficiency in plants and crops
Grantham, Lincs (UK)
2010-12-15/2010-12-16
<http://www.aab.org.uk/contentok.php?id=96&basket=wwsshowconfdets>
52.979696, -0.676156

The Association of Applied Biologists
International Conference on Positive Plant Microbial Interactions in Relation to Plant
Performance and Ecosystem Function
Grantham, Lincs (UK)

2009-12-15/2009-12-16

<http://www.aab.org.uk/contentok.php?id=86&basket=wwsshowconfdets>

52.979696, -0.676156

The Association of Applied Biologists

Advances in Nematology 2009

London (UK)

2009-12-15

<http://www.aab.org.uk/contentok.php?id=90&basket=wwsshowconfdets>

51.51067891475624, -0.13387441635131836

9th Fumigants & Pheromones Conference

"Reducing Customer Complaints"

Valencia (SP)

2010-03-03/2010-03-05

<http://guest.cvent.com/EVENTS/Info/Summary.aspx?i=25f559be-c6b2-4b77-8958-b0df5c428949>

39.498100, -0.402217

IOBC-OILB

BIOLOGICAL CONTROL OF FUNGAL AND BACTERIAL PLANT PATHOGENS,
IOBC/WPRS Working Group, 'Climate change: Challenge or threat to biocontrol

Graz (AU)

2010-06-07/2010-06-11

http://www.envirochange.eu/english/events_iobc.html

47.058857, 15.459284

MEDITERRANEAN PHYTOPATHOLOGICAL UNION

13TH CONGRESS OF THE MEDITERRANEAN PHYTOPATHOLOGICAL UNION

Rome (IT)

2010-06-20/2010-06-25

http://www.cra-pavevents.com/viewpage.php?page_id=25

41.9324064955689, 12.555484771728516

International Society for Mycotoxicology

Training Course on: "Detection techniques for mycotoxins and toxigenic fungi in the food chain"

Bari (IT)

2010-10-04/2010-10-08

[http://www.ispa.cnr.it/mycoglobe/conference/index.php?page=accommodations&id_conf=1641.11280828787111, 16.881930828094482](http://www.ispa.cnr.it/mycoglobe/conference/index.php?page=accommodations&id_conf=1641.11280828787111,16.881930828094482)

International Society for Mycotoxicology

"Wine Microbiology and Safety: from the vineyard to the bottle" (Microsafetywine)

Martina Franca (IT)

2010-11-19/2010-11-20

[http://www.ispa.cnr.it/mycoglobe/conference/index.php?id_conf=1340.724364221722716, 17.3309326171875](http://www.ispa.cnr.it/mycoglobe/conference/index.php?id_conf=1340.724364221722716,17.3309326171875)

International Society for Mycotoxicology

Detection techniques for mycotoxins and toxigenic fungi in the food chain

Bari (IT)

2010-10-04/2010-10-08

[http://www.ispa.cnr.it/mycoglobe/conference/index.php?page=programme&id_conf=1641.11280828787111, 16.881930828094482](http://www.ispa.cnr.it/mycoglobe/conference/index.php?page=programme&id_conf=1641.11280828787111,16.881930828094482)

AgriGenomics World Congress

AGRIGENOMICS WORLD CONGRESS

Brussel (Belgium)

2010-07-08/2010-07-09

[http://www.selectbiosciences.com/conferences/AGWC2010/50.83269480514773, 4.3582892417907715](http://www.selectbiosciences.com/conferences/AGWC2010/50.83269480514773,4.3582892417907715)

EWRS

15TH EUROPEAN WEED RESEARCH SOCIETY SYMPOSIUM

Kaposvar (HU)

2010-07-12/2010-07-15

<http://www.asszisztencia.hu/ewrs/>

46.371776, 17.81967

IMC9: The Biology of Fungi

Edinburgh (EN)

2010-08-01/2010-08-06

<http://www.imc9.info/>

55.947469661331155, -3.2096385955810547

8TH INTERNATIONAL CONFERENCE ON *Pseudomonas syringae* AND RELATED PATHOGENS

Oxford (EN)

2010-08-31/2010-09-03

<http://www.reading.ac.uk/psyringae2010/>

51.759028, -1.256416

8th International Symposium on Fruit Flies of Economic Importance

Valencia (SP)

2010-09-26/2010-10-01

<http://www.fruitflyvalencia2010.org/>

39.48158673031113, -0.3428936004638672

Annual Biocontrol Industry Meeting Lucerne 2009

Lucerna

2010-10-25/2010-10-26

<http://www.abim-lucerne.ch/index.html>
47.05144073431903, 8.31214427947998

IOBC/WPRS

IOBC/WPRS Working Group on "Integrated Control in Citrus Fruit Crops",
Agadir (Marocco)

2010-03-01/2010-03-03

<http://www.iavcha.ac.ma/iobc2010citrusipmwg/>
30.411966135142254, -9.615097045898438

IOBC/WPRS

IOBC/WPRS Working Group on "Insect Pathogens and Entomopathogenic Nematodes,
subgroup on Slugs and Snail"

Cardiff (UK)

2010-03-23/2010-03-25

<http://www.iobc-wprs.org/events/index.html>
51.485827, -3.181715

IOBC

Biocontrol in the Americas – Past, Present and Future

Niagara Falls (Canada)

2010-05-11/2010-05-13

<http://www.iobc-wprs.org/events/index.html>
43.105316, -79.073243

IOBC

IOBC/WPRS Working Group "Landscape Management for Functional Biodiversity"

Cambridge (UK)

2010-06-29/2010-07-01

<http://www.iobc-wprs.org/events/index.html>
52.202544, 0.131237

IOBC

IOBC/WRS Working Group "Integrated Protection of Fruit Crops",

Tremiti Islands (IT)

2010-09-12/2010-09-17

<http://www.iobc-wprs.org/events/index.html>

42.114804, 15.491094

IOBC

IOBC Working Group "Integrated Protection of Fruit Crops", Sub Group "Soft Fruits"

Budapest (Hungary)

2010-09-20/2010-09-23

<http://www.iobc-wprs.org/events/index.html>

47.498406, 19.040758

IOBC

IOBC Working Group "Integrated Protection of Olive Crops"

Jerusalem (Israel)

2011-05-15/2011-05-20

<http://www.iobc-wprs.org/events/index.html>

31.768318, 35.213711

EWRS

Workshop on: How to write a paper for a scientific journal

Kaposvar (Hungary)

2010-06-11

<http://www.ewrs.org/et/Kaposvar.asp>

46.371776, 17.81967

CABI

Towards sustainable management of *Ambrosia artemisiifolia* in Europe

Delémont (Switzerland)

2009-12-07

<http://www.cabi.org/Default.aspx?site=170&page=2014>

47.36208323188103, 7.346076965332031

International Conference on Integrative Landscape Modelling website.

Montpellier (France)

2010-02-03/2010-02-10

<http://www.umr-lisah.fr/rtra-projects/landmod2010.html>

43.605436, 3.876233

Association for Crop Protection in Northern Britain

The Dundee Conference

Dundee (UK)

2010-02-23/2010-02-24

<http://www.cpnb.org/>

56.458032, -2.981972

AGRO2010 The Scientific International Week around Agronomy

Montpellier (FR)

2010-08-29/2010-09-03

<http://www.agropolis.fr/agro2010/index.html>

43.608736628843445, 3.8792896270751953

International Conference on Precision Agriculture

Denver, Colorado (USA)

2010-06-18/2010-06-21

<http://www.icpaonline.org/>

39.630481831545154, -104.89943504333496

Innovation & Sustainable Development in Agriculture and food

Montpellier (FR)

2010-06-28/2010-07-01

<http://www.isda2010.net/>

43.608736628843445, 3.8792896270751953

12th International Conference on Plant Pathogenic Bacteria

Saint Denis, Ile de la Réunion (France)

2010-06-07/2010-06-11

<http://www.icppb2010.org/>

-21.103719096296263, 55.60009002685547

12th World Congress of the International Association for Plant Biotechnology

Saint Louis, Missouri (USA)

2010-06-06/2010-06-11

<http://www.iapb2010.org/>

38.646991, -90.224967

Climate Change and the Implications for Plant Protection

Guelph, Ontario (Canada)

2010-05-20/2010-05-25

<http://www.cropprotection.open.uoguelph.ca/>

43.525788, -80.2259

EuroBlight Workshop

Arras (France)

2010-05-03/2010-05-06

http://www.endure-network.eu/about_endure/events/euroblight_workshop

50.292876, 2.782498

IAALD 13th World Congress

Montpellier (France)

2010-04-26/2010-04-29

<http://www.iaald2010.agropolis.fr/>

43.608736628843445, 3.8792896270751953

Global Conference on Agricultural Research for Development (GCARD)

Montpellier (France)

2010-03-28/2010-03-31

<http://www.egfar.org/egfar/website/gcard>

43.608736628843445, 3.8792896270751953

Aarhus Univeristy

Hands-on LC-MSMS analytical chemistry of phytochemical

Flakkebjerg (Denmark)

2010-06-21/2010-07-02

<http://www.agrsci.org/content/view/full/1557>

11.395183,55.31477

Wageningen University

Bioinformatics - a user's approach

Wageningen (The Netherlands)

1010-03-15/2010-03-19

[http://www.graduateschool-](http://www.graduateschool-eps.info/index.php?option=com_content&task=view&id=93&Itemid=122)

[eps.info/index.php?option=com_content&task=view&id=93&Itemid=122](http://www.graduateschool-eps.info/index.php?option=com_content&task=view&id=93&Itemid=122)

5.654354095458984,51.98001671036239

Wageningen University

Spring School 'RNAi & The world of small RNA molecules'

Wageningen (The Netherlands)

1010-04-14/2010-04-16

http://www.graduateschool-eps.info/index.php?option=com_content&task=view&id=154&Itemid=122

5.654354095458984,51.98001671036239

Wageningen University

Advanced PhD Course Comparative Proteomics

Wageningen (The Netherlands)

1010-04-21/2010-04-23

http://www.graduateschool-eps.info/index.php?option=com_content&task=view&id=166&Itemid=122

5.654354095458984,51.98001671036239

Wageningen University

PhD Summer School Rhizosphere Signaling

Wageningen (The Netherlands)

2010-08-23/2010-08-25

http://www.graduateschool-eps.info/index.php?option=com_content&task=view&id=168&Itemid=122

5.654354095458984,51.98001671036239

The C.T. de Wit Graduate School Production Ecology and Resource Conservation,
Wageningen University (PE&RC)

The Art of Modelling

To Be Defined

2010-08-23/2010-09-03

<http://www.perc.nl/database/Courses%20&%20Activities/PE&RC%20postgraduate%20courses/The%20art%20of%20modelling.htm>

5.654354095458984,51.98001671036239

ILVO's Social Sciences Unit, WUR-LEI, Ghent University

An institutional approach to the analysis of systems, systems change and transition in natural resources

Vaalbeek (Belgium)

2010-02-01/2010-02-04

<http://www.ilvo.vlaanderen.be/Default.aspx?alias=www.ilvo.vlaanderen.be/phdwinterschool>

4.683952331542969,50.82372226295971