

Welcome to the 26th edition of ENDURE News, the electronic newsletter from ENDURE. Please feel free to share this newsletter with colleagues.

- **PPP sellers to push alternatives**

France's bold scheme to transform distributors of plant protection products into 'agents of change', encouraging their customers to use alternatives to synthetic chemical products, is underway. Under the scheme, distributors are obliged to drive the move towards more sustainable crop protection, earning Certificats d'Economie de Produits Phytopharmaceutiques (CEPP or pesticide savings certificates) for prompting clients to use a range of officially approved alternatives.



- **Crop loss conference: presentations online**

The keynote presentations and extended abstracts from October's three-day International Conference on Global Crop Losses Caused by Diseases, Pests and Weeds are now available. The event was organised by INRA, through its SMAcH (Sustainable Management of Crop Health) and GloFoodS (Transitions to Global Food Security) metaprogrammes, and in partnership with CIRAD and ISPP (International Society of Plant Pathology).



- **IPM toolboxes for key crops**

The James Hutton Institute (JHI), ENDURE's Scottish partner, has launched online Integrated Pest Management (IPM) toolboxes for three of the country's most important crops. The crop-specific toolboxes are accessible via the Institute's IPM portal, which examines a series of IPM topics, such as biocontrol, landscape management and pest and pathogen detection and monitoring.



- **INRA: An 'intense' 2016**

INRA, France's National Institute for Agricultural Research, has hailed 2016 as an 'intense' year, notable for the celebration of the organisation's 70th anniversary, a record number of scientific publications and co-publications with partners around the world, the appointment of a new president and a focus on 2025, with the adoption of a 10-year strategic plan.



- **Millions to kick-start Smart Crop Protection**

The UK's Rothamsted Research has secured around £6.3 million (€6.8 million) of government funding to kick-start its new five-year strategic programme. Called Smart Crop Protection (SCP), the ENDURE partner's programme is focused on the sustainable control of pests, pathogens and weeds.



- **Agroscope investigates 'Smart Farming'**

Agroscope, ENDURE's Swiss partner, has underlined its commitment to 'Smart Farming', conducting research on the topic at its Tänikon site, which is being converted into the Swiss Future Farm. The latter is designed to stimulate "professional exchanges on concrete applications with farmers", with Agroscope investigating how new tech can best be used in Swiss agriculture.



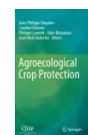
- **Joint German-Chinese effort to tackle SWD**

The Julius Kühn Institute (JKI), ENDURE's German partner, reports on a successful multi-disciplinary symposium which brought together experts from Germany and China, in addition to representatives from Italy and Switzerland, to investigate integrated management of spotted wing drosophila (SWD) earlier this summer.



- **New book: Agroecological Crop Protection**

In what the publishers say is the first monograph on the subject, 56 authors have



contributed to a new book applying the principles of agroecology to crop protection. Called Agroecological Crop Protection, the book's editors include Jean-Noël Aubertot, from France's National Institute for Agricultural Research (INRA), and Jean-Philippe Deguine and Alain Ratnadass, from CIRAD, who are contributing to next year's five-day training course on the subject.

- **Understanding ecosystem services**

Knowledge on the importance of ecosystem services has been further enhanced with the completion of two projects focusing on the topic. The pan-European QuESSA (Quantification of Ecological Services for Sustainable Agriculture) project has presented its findings in a brochure summarising its work and recommendations, while a team from INRA (France's National Institute for Agricultural Research) has presented its results on the ecosystem services provided by agriculture as part of the country's EFESÉ programme (Evaluation Française des Écosystèmes et des Services Écosystémiques).



- **IPM options for oilseed rape**

ENDURE's German partner, the Julius Kühn Institute, hosted the European and Mediterranean Plant Protection Organisation's two and a half day workshop addressing Integrated Management of Insect Pests in Oilseed Rape (OSR), attracting nearly 80 participants to its site in Berlin.



- **Bright future for biocontrol**

A recent edition of the European Commission's Science for Environment Policy fact sheet ('Natural enemies of crop pests will feature in the future of environmentally friendly farming') focuses on a review conducted by an international team of experts of the current state of biological control and the measures which could help accelerate its development and use.



- **DiverIMPACTS: 25 case studies underway**

Work is underway in the five-year DiverIMPACTS project (Diversification through Rotation, Intercropping, Multiple Cropping, Promoted with Actors and value-Chains towards Sustainability), which is exploring the full potential of diversifying cropping systems with the aim of improving agricultural productivity, resource efficiency and sustainable value chains.



- **One-stop shop assessments and more**

The fourth newsletter from the EUCLID project (Europe-China Lever for Integrated Pest Management Demonstration) is now available, bringing readers up to date on its work to develop IPM packages for grapevine, leaf vegetables and tomatoes.



- **IPM principles now explored in Hungarian**

More than two years after it was first published, the review paper on the European Union's eight principles of Integrated Pest Management (IPM), co-authored by a 17-strong ENDURE team, has been translated into Hungarian and will be used as a teaching aid for students in agricultural science.



- **New app tackles overseas crop protection**

Sustainable crop protection for vegetable crops and tropical tubers in France's numerous overseas communities has been given a boost with the launch of Tropiléq, an application addressing health problems in a broad range of crops.



- **New databases added to French IPM portal**

Two new databases have been added to EcophytoPIC, France's Integrated Pest Management (IPM) portal, one covering beneficials, pests and physiological and climatic incidents and the other bringing together more than 50 years of ACTA's phytosanitary index, providing information on which pesticides have been used and for what purpose since 1961.



- **Dual control to beat blight**

Researchers at Rothamsted Research, one of ENDURE's two UK partners, have used computer modelling drawing on classical population genetics theory to confirm that 'combining methods of disease control rather than relying on a single resistance strategy can extend the durability of crops by many years.'



- **AgriSpin: Insights into innovation**

The AgriSpin project (Space for Innovation in Agriculture) has now been completed, with a closing conference on the Greek island of Crete providing participants with the opportunity



to gain insights into methods for creating space for innovation.

- **EuroBlight updates efficacy tables**

Ahead of the 2018 field season, EuroBlight, the European network of scientists and other specialists working on potato early and late blight, has updated its fungicide efficacy tables for control of these diseases.



- **Conference to mark 175 years**

The UK's Rothamsted Research celebrates its 175th anniversary in 2018 and will be marking the occasion with a three-day conference dedicated to exploring the role of classical and other long-term experiments in agricultural science.



- **BIOCOMES: 'Cooperation is key'**

The latest newsletter from the BIOCOMES project includes an interesting interview with Philippe Nicot, the recently re-elected president of the West Palearctic Regional Section of the International Organisation for Biological Control (IOBC), underlining the importance of cooperation between Integrated Pest Management (IPM) and biocontrol researchers and all other actors in the production chain.



- **New dates for events calendar**

Ten new events have been added to ENDURE's event calendar, including a trio of conferences concentrating on biocontrol. These include March 2018's Biocontrol Africa, which is being staged in Nairobi, Kenya, and two new events, the First International Congress of Biological Control (ICBC-1) in Beijing, China, and the 1st International Conference on Biological Control, in Bengaluru, India.



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