

An international journal covering the management of weeds, pests and diseases through chemistry, biology and biotechnology

OUTLOOKS ON PEST MANAGEMENT

CONTENTS – February 2018

- 2 **Editorial: Happy New Year: But Be Careful What You Wish For** – Leonard G. Copping, Editorial Board Member
- 5 **Impacts of Weed Resistance to Herbicides on United States (U.S.) Cotton (*Gossypium hirsutum*) Production** – Robert Loring Nichols
- 10 **Regulatory News** – new registrations, environmental effects and withdrawals
- 13 **The Management of Invasive Alien Plants in South Africa: Strategy, Progress and Challenges** – Brian W. van Wilgen
- 18 **International Advances in Pesticide Application** – Graham Matthews
- 20 **Biotechnology News** – developments in molecular biology and genomics
- 25 **The Evolution of Crop Protection Companies** – Leonard G. Copping outlines the various changes in pesticides companies in recent decades
- 28 **The Continued Evolution of Agrochemical Companies** – Leonard G. Copping
- 39 **R&D News** – reports on new products, new applications and new uses
- 43 **Assessing the Risk of Pesticides for the Aquatic Environment: Introducing the E-Flows Mesocosm, A Step Change in Higher Tier Testing** – Rachel Benstead, David Phillips & Fraser Black
- 48 **Company News**
- 52 **Calendar**

COVER PHOTOS: Cotton bollworm (*Helicoverpa zea*) (Photo by Scott Bauer) and *Aedes* (*Ochlerotatus*) sp. mosquito on human skin both reproduced courtesy of USDA-ARS; Cocoa showing both frosty pod rot (*Moniliophthora roreri*) and witches' broom (*M. perniciosa*) on the same branch (Ecuador) (Photo by Roy Batemen); Unsprayed strip in sugarbeet showing poppies (*Papaver* spp.) (Photo by Alan Dewar)