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\*IPMnet NEWS\*            Issue #154            April/May 2007  
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"Global Principles, Local Practices"

\* IPMnet NEWS email version uses "traditional" plain text, and Courier fixed-space type font.

\* IPMnet NEWS, a freely available, global electronic IPM information resource, is published every 6 weeks (8 issues per annum). Next issue (#155) will be published circa 01 June 2007. ISSN:1523-7893.

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I. IPM NEWS  
--- international IPM news and programs  
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## European Crop Protection Gets Boost

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Europe has launched a massive, four-year network program and committed euro 11.2 million to develop more environmentally sensitive crop protection strategies that better reflect consumer expectations, yet fit with economically viable farming systems.

The effort, the European Network for the Durable Exploitation of Crop Protection Strategies (ENDURE), will foster investment in the biology of pathogens, pest insects, and weeds. The aim is to create crop varieties with sustainable resistance capability, expand and improve effective biocontrol, weed management, and invasive species management, and increase spatial diversification of agroecosystems.

ENDURE, by pooling knowledge, human resources, and equipment across Europe, expects to create a multidisciplinary and transnational collaborative research thrust. The goal is to mobilize methods, tools, and experience to help foster crop protection practices that reduce reliance on product inputs.

Plans call for close cooperation with a variety of stakeholders in responding to knowledge needs and sharing of expertise. ENDURE will strive to facilitate dialogue between groups concerning economically, culturally, and socially acceptable solutions.

The Network intends to evolve into the leading European crop protection reference source for both producers and policy decision-makers. According to P. Ricci, program coordinator, "ENDURE aims to become a world leader in the development and implementation of sustainable control strategies."

-> J-L. Sarah, CIRAD. [Mailto:Jean-Louis.Sarah@cirad.fr](mailto:Jean-Louis.Sarah@cirad.fr)

See: <http://www.cirad.fr/en/presse/communiqu.php?id=260>.

--compiled and excerpted, with thanks, from CIRAD; the CROP

PROTECTION MONTHLY, 207, 28 February 2007; and other sources.

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### \*GLOBAL IPM SNAPSHOTS\*

\* The root-feeding weevil, *Cyphocleonus achates* (Fahraeus), shows promise as a biocontrol agent of the weed *Centaurea maculosa* (spotted knapweed). -> S.E. Sing, <mailto:SSing@montana.edu>.

\* A *Rosmarinus officinalis* (rosemary) oil-based pesticide proved to be a suitable option for IPM programs deployed to control *Tetranychus urticae* (twospotted spider mites) on greenhouse tomato plants.  
-> S. Miresmailli, <mailto:Saber@interchange.ubc.ca>.

\* Onion waste compost incorporated into soil reduced the impact of

\_Scelrotium cepivorum\_, the fungus causing allium white rot of  
\_Allium\_ spp. -> R. Noble, mailto:Ralph.Noble@warwick.ac.uk.

\* Research identified several \_Vicia\_ spp. (vetch) species with high  
levels of resistance to \_Orobanche crenata\_ (crenate broomrape).  
-> J.C. Sillero, mailto:Josefa.Sillero.ext@juntadeandalucia.es.

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## II. IPM MEDLEY

--- publications and other IPM information resources

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### \*PUBLICATIONS PERUSED\*

IPMnet NEWS welcomes mentioning any publication focused on, or  
related to, crop or amenity plant IPM, and invasives. To assure  
coverage, please send a review copy of the publication, along with  
full information, to IPMnet NEWS (see address at end of this file).

--many thanks, Ed.

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{ \$ } = indicates a publication can be purchased, or that there may be  
charges for handling and postage.

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### FRUIT TREE PROTECTION

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Tree fruit growers face vitally important questions of how to recognize: orchard  
diseases that need to be prevented, the beneficial insects and mites that should be  
preserved and protected, and the pest species that need to be surveyed and controlled. A  
handy newer ref-  
erence, TREE FRUIT FIELD GUIDE TO INSECT, MITE, AND DISEASE PESTS  
AND  
NATURAL ENEMIES OF EASTERN NORTH AMERICA, provides help in answering  
these challenges. The 2006, profusely illustrated (over 500 full color  
photos) work, a compilation of fact sheets, offers a visual and text  
information trove. Extension entomologist A.M. Agnello and collaborating authors divide  
the 250-page, spiral-bound, lay-flat guide into three,  
color coded main sections: profiles of 89 insect and mite pests (listed  
by damage symptoms and pest type); 20 beneficial insects, spiders, and  
mites; and, profiles of numerous diseases. Each series lists key in-  
formation under several headings accompanied by clear color plates, and  
for arthropods, silhouettes of life stages and lengths in millimeters.  
An introductory section presents detailed diagnostic keys. A glossary  
and a cross referenced index are also included. The publication, was

sponsored by 10 commercial firms and, while aimed at a specific geographic region, provides information with far broader application.  
{\\$} -> NRAES/Extension, PO Box 4557, Ithaca, NY 14852-4557, USA.  
Fax: 1-607-254-8770. Mailto:nraes@cornell.edu. Phone: 1-607-255-7654.  
Http://www.nraes.org. [#]

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PEST INSECTS IN STORED PRODUCTS  
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Two newer monographs address the problems of pest insects after harvest of food crops.

\* INSECT MANAGEMENT FOR FOOD STORAGE AND PROCESSING, 2nd. edition,

J.W. Heaps, editor, hardbound, 216 pages, over 80 illustrations.

This large format volume supplants the 1984 version and offers a thoroughly revised and expanded overview, including application of IPM strategies. An international contingent of specialists provide a body of experience and practical information ready for direct application.

\* FUNDAMENTALS OF STORED-PRODUCT ENTOMOLOGY, by D.W. Hagstrum and

B. Subramanyam, hardbound, 306 pages, 22 black/white illustrations.

The authors focus on insights into the basics of stored product insect biology, ecology, and pest management. The objective is to present information needed to plan, implement, and evaluate an effect pest management program for insects of stored products.

{\\$} -> G. Ford, AACC/APS, 3340 Pilot Knob Rd., St. Paul, MN 55121, USA.  
Mailto:GFord@scisoc.org. Fax: 1-651-454-0766. [#]

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AUSTRALIA'S KEY WEEDS PROFILED  
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Australia's weeds of national significance (WoNS) program involves providing information--lots of it--for the 20 plant species selected and officially designated as WoNS since 1999. Two notable recent (2006) additions to the expanding body of available WoNS-related literature are:

\* ASPARAGUS WEEDS, Best Practice Management Manual, a handsomely produced and liberally illustrated reference, keys off the noxious WoNS *Asparagus asparagoides* (L.) Druce (bridal creeper, or similax), while also discussing other related asparagus species that have gained notoriety in Australia. Each of the publication's seven sections presents nomenclature and distribution information, how the species was introduced, dispersal methods, description, and control options. A growth calendar and list of references complete the picture. Prior to setting forth individual weed specifics, section

one, "Developing a Weed Management Plan," offers a generalized guide with numerous tips for site assessment, mapping, determining weed density, management approaches, and other practical items such as action plans and funding considerations. Single copies of the 84-page, full color, wirebound work are freely available. -> D. Gannaway, Dept. of Water, Land and Biodiversity Conservation, GPO Box 2834, Adelaide, SA 5001, AUSTRALIA. Fax: 61-08-8303-9555. Mailto:Gannaway.Dennis@saugov.sa.gov.au.

\* Described as a comprehensive tool, BONESEED, Current Management and Control Options for Boneseed (*Chrysanthemoides monilifera* spp. *monilifera*) in Australia, delivers detailed explanations for boneseed (also known as bitou bush) control methods as well as advice for developing a weed management plan. Logically, section one profiles this notorious WoNS. Five following sections of this extensively illustrated, colorful, and graphically appealing 90-page work present not only thoughtful assessments of various control strategies, but delve into problems of regrowth, native vegetation restoration, and ongoing monitoring. Editors K.J. Brougham, et al, include a short series of case studies, and conclude the publication with further information, a glossary, acronyms, and references. The entire work can be freely downloaded from: <http://www.weeds.org.au/WoNS/bitoubush>. Also available are boneseed flyers and posters (viewable on the website).

-> K.J. Brougham, Pest Management Unit, NSW DE&C, PO Box 1967, Hurstville, NSW 1481, AUSTRALIA. Fax: 61-2-9585-6401. Mailto:Kerry.Brougham@environment.nsw.gov.au. [#]

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UPDATED PESTICIDE GUIDE

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THE UK PESTICIDE GUIDE 2007 is the annually revised authoritative source for pesticide and adjuvant information in the UK. The latest version, edited by R. Whitehead, spans more than 700 pages with near encyclopedic coverage of well over 1,300 products, including all new specific off-label approvals (SOLAs), and lists pesticides not profiled but still legal for use. An important feature lays out pesticide information needed to complete a crop protection management plan as required by the UK's unique Voluntary Initiative. Nine new active ingredients are listed for the first time in the softbound Guide's 20 years of publication. Products added and deleted just since the last (2006) issue of the Guide are also spelled out. An electronic version of the Guide is available as a fully searchable CD-ROM. A free on-line guided tour can be accessed at <http://www.ukpesticideguide.co.uk>. The Guide is jointly published by BCPC (formerly the British Crop Production Council) and CABI. {} BCPC Publications, 7 Omni Business Ctr., Omega Park, Alton, Hamps. GU34 2QD, UK. Fax: 44-0-1509-211932. Phone: 44-0-1509-233219. Mailto:edpress@bcpc.org. [Http://www.bcpc.org/](http://www.bcpc.org/) (click "BCPC Bookshop").

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\*WEB, PUBLICATION, CD, AND VIDEO NOTES\*

IPMnet NEWS cites websites, publications, CDs, or videos focused on, or related to, crop or amenity plant IPM. Please send a review copy of the item to the address at end of this file; for a website, send the URL to:  
mailto:IPMnet@science.oregonstate.edu.

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## IPM IMAGES: A FREE RESOURCE

A collaborative effort has created IPM Images, a free resource of more than 55,000 images covering nearly 9,100 subjects, as prepared by 1,200 photographers. Image categories are divided into agronomic (or "field") crops, plus vegetables, fruits and nuts, and ornamentals. The site, at <http://www.ipmimages.org>, has the overall objective of providing an accessible and easily used archive of high quality images related to IPM. The site is one of several similar linked databases. Images include those of crops, pest insects, weeds, beneficials, and other subjects. Clicking on a chosen item opens a window with supplemental information, such as scientific and common nomenclature, and a link to the target image. Once the latter is open it can be freely copied to other programs such as presentation software. IPM Images is a joint project of: The Bugwood Network, the NSF Center for IPM, and several entities within the Univ. of Georgia (USA) which hosts the program. Users are urged to register (at no cost) and join the organizers--also possibly contributing (via loan) photos--so as to help positively influence funding for future operations.

-> G.K. Douce, mailto:KDouce@arches.uga.edu. [#]

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## CROP PROTECTION PROCEEDINGS ONLINE

Crop protection specialists and other specialists have collaborated to make 10 years of the Proceedings of the annual "Illinois Crop Protection Technology Conference" widely accessible by placing the material online at the Univ. of Illinois IPM website: <http://www.ipm.uiuc.edu/education/proceedings/>. The 2007 Conference, convened in January 2007, includes a broad sweep of material, primarily based on conditions in mid-USA, but inclusive of widely applicable information such as the paper by W. Wintersteen, "Is Extension Delivering Relevant and Effective Integrated Pest Management Corn and Soybean Programs?," and "Identifying and Protecting Organic Farms from Contamination with Prohibited Substances," by C. Bowman.

--thanks to K.L. Steffey for information. [#]

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## WILDLIFE AND HUMAN ACTIVITY

Wildlife is a multi-faceted element. While often nurtured, shielded, and preserved for the public good, an opposing aspect involves

investigating avenues for protecting human activity against wildlife impacts--especially caused by invasive species. In the latter arena, the U.S. National Wildlife Research Center (NWRC) is tasked with leadership in seeking answers to effectively managing, mitigating, and resolving problems caused by the interaction of people and wildlife. A 2007 publication from the Center, INNOVATIVE SOLUTIONS TO HUMAN-WILDLIFE CONFLICTS, expands on the NWRC's accomplishments in 2006. Sections in the 84-page report address avian and mammalian research, product research and development, disease research, and related topics such as international cooperation. The illustrated, black/white softbound publication, is misc. pub. no. 1597. -> National Wildlife Research Ctr., USDA-APHIS, 4101 LaPorte Ave., Fort Collins, CO 80521-2154, USA. Mailto:nwrc@usda.gov. Fax: 1-970-266-6032. Phone: 1-970-266-6000. [Http://www.aphis.usda.gov/ws/nwrc](http://www.aphis.usda.gov/ws/nwrc). [#]

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## WEED AND HERBICIDE ABBREVIATIONS

The European Weed Research Society (EWRS) has published a useful listing of "Weed- and Herbicide-Related Technical Abbreviations" with over 100 entries. The information appears in the journal WEED RESEARCH, 47(1), 94, February 2007. The listed abbreviations are permitted to be included, without definition, in papers published by the journal, and other periodicals, though in some cases spelling out a full word may be more suitable for use in a text. [#]

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## REPORT COVERS IPM ACTIVITIES

The Michigan State Univ. (USA) IPM program has posted its 2006 Annual Report at <http://ipm.msu.edu/pdf/IPMannualRpt06.pdf>. The 12-page, illustrated document highlights accomplishments and activities conducted during the year, as well as the breadth of programs and active grants. The Report also doubles as vol. 13, no. 1 of the institution's periodic newsletter, THE IPM REPORT.

--thanks to J.N. Landis for information. [#]

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## NEW JOURNAL FOCUSES ON INVADING PLANTS

The Weed Science Society of America (WSSA) will launch a new peer-reviewed journal focusing on fundamental and applied research for invasive plant biology, ecology, management, and restoration of invaded non-crop areas, according to the WSSA's website. INVASIVE PLANT SCIENCE AND MANAGEMENT will debut in early 2008 covering educational, sociopolitical, and technological aspects of invasive plant management, increasingly important areas of research and action. A wide range of articles is being solicited: case studies, reviews, symposium papers, and other materials, including commentaries. The journal will be edited by weed scientist

J.M. DiTomaso, <mailto:JMDiTomaso@ucdavis.edu>.

See: <http://www.wssa.net/WSSA/Pubs/IPSM/AnnouncementCall.pdf>.

--excerpted, with thanks, from the WSSA website. [#]

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## A NEW SEARCH ENGINE

A newly launched search function connects to multiple, predominantly US institutions and, while somewhat limited now, aspires to eventually become a broad international agricultural information portal. An early April 2007 search for "IPM" using the Plant Management Network's (PMN) new web search engine turned up nearly 300 entries, though some of the links were dead-end websites. At

<http://www.plantmanagementnetwork.org> click on "search" (far right top), then "Ag & Plant Science Info .....", click on the "select" button, enter a term in the box (IPM for instance), and click on the "search" button. The database whirs into speedy action and opens to one page of citations; however, many more pages can be accessed by clicking on the numbers at "Result Page:" at the bottom of the active page.

-> M. Wimer, Director PMN, 3340 Pilot Knob Rd., St. Paul, MN 55121, USA.

Phone: 1-651-994-3860. [Mailto:MWimer@scisoc.org](mailto:MWimer@scisoc.org).

--thanks to M. Wimer for information.

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## \*PROFESSIONAL OPPORTUNITIES\*

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INTERDISCIPLINARY PEST MANAGEMENT SCIENTIST, Sidney, MT, USA \*

Conduct

fundamental and applied research and lead a scientific team engaged in developing ecologically based strategies, technologies, and products for the management of insect pests and weeds in crops and rangeland. \* REQUIRES: Advanced degree in a pest management-related field; proven leadership skills and demonstrated ability to guide research programs. Position: ARS-X7W-0188. U.S. citizenship required. \* CONTACT: J. Jones, <mailto:Jan.Jones@ars.usda.gov>. Phone: 1-970-492-7002. See: <http://tinyurl.com/2xc860>. [#]

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WEED SCIENTIST, East Lansing, MI, USA \* Develop a nationally recognized

integrated research and extension weed science program focusing on crops grown in the (US) Great Lakes region. \* REQUIRES: PhD in weed science or related discipline; postdoctoral research and extension experience; demonstrated ability to obtain external grants. See: <http://tinyurl.com/27buw2>. CONTACT: K. Thelen, <mailto:ThelenK3@msu.edu>, or, D. Johnson, <mailto:Johns146@msu.edu>.

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## \*EQUIPMENT, PRODUCTS, & SERVICES\*

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## FRUIT FLY POSTERS AVAILABLE

The 2002, authoritative and colorful two-poster set depicting "Fruit Fly Pests of The World" will soon be available in Spanish and Portuguese versions, according to INSECT PEST CONTROL NEWSLETTER no. 68, from the Joint FAO/IAEA Programme in Nuclear Techniques in Food and Agriculture.

Fruit flies are among the most important quarantine pests of many high value crops. Rapid identification materially aids prompt and appropriate response to newly fly invaded regions. The new poster sets will include a number of improved quality photos of adult flies plus at least one new species, *Bactrocera invadens*.

The posters, which serve as useful information sources for producers as well as extension specialists and governmental agencies, feature 64 full color photos of adult flies, mostly photographed live. Information for each species provides nomenclature, the major types of fruit attacked, and world distribution, as shown on small maps. Additionally, the best lures for fruit fly traps are listed for each species.

Posters measure 97 X 65 cm (38 X 26 inches) and are printed on high quality paperstock and then laminated in clear plastic for display. Enlarged views and other details can be activated by clicking on various spots at <http://www.saspl.com.au/posters.html>, the publisher's website. Scientific Advisory Services Pty., PO Box 1056, Tully, QLD 4854, AUSTRALIA. Mailto:info@saspl.com.au. Fax: 61-07-4065-4991. Phone: 61-0417-644-660.

--thanks to the FAO/IAEA Joint Programme, Scientific Advisory Services, and R. Piper for information.

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III. IPM-RELATED RESEARCH/TECHNICAL PAPERS  
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\*SELECTED TITLES\*

Selections from current literature. IPMnet NEWS will gladly provide the address and email, as available, for first authors of the following titles. Requests to: <mailto:IPMnet@science.oregonstate.edu>.

Phytopathology  
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"Exploiting Host Resistance to Reduce the Use of Fungicides to Control Potato Late Blight," Naerstad, R., *et al.* \* PLANT PATH., 56(1), 156-166, February 2007.

Weed Science

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"Effects of Successive Seasons of Genetically Modified Herbicide-Tolerant Maize Cropping on Weeds and Invertebrates," Heard, M.S., \_et al\_. \* ANNS. OF APPLD. BIOL., 149(3), 249-254, December 2006.

Entomology

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"Impact of Extreme Temperatures on Parasitoids in a Climate Change Perspective," Hance, T., \_et al\_. \* ANN. REV. OF ENTOM., 52, 107-126, 2007.

Transgenics Sub-section

\*\*\*\*\*

"Diamondback Moth Resistance to \_Bacillus thuringiensis\_ Transgenic Canola: Evaluation of Refugia Size with Non-recessive Resistant Insects," Cerda, H., \_et al\_. \* JRNL. OF APPLD. ENTOM., 130(8), 421-425, September 2006.

General

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"The Evolution of Biologically-based Integrated Pest Management in California Citrus: History and Perspective," Morse, J.G., \_et al\_. \* UC PLANT PROT. QTRLY, 16(4)-17(1) (combined issue), 1-11, October 2006/January 2007. [Http://tinyurl.com/yqqopa](http://tinyurl.com/yqqopa).

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IV. U.S. Regional Integrated Pest Management Centers

--- news, developments

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Pest Management in Non-rotated Crops

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A burgeoning market for a crop commodity, such as with maize in the U.S. due to a spike in national ethanol production, can cause growers to abandon tried-and-tested crop rotations. Two regional newsletters assess some of the various implications, especially pest management.

Scientists at the Univ. of Kentucky, writing in the institution's "Corn & Soybean News," [http://www.uky.edu/Ag/CornSoy/cornsoy7\\_2.htm](http://www.uky.edu/Ag/CornSoy/cornsoy7_2.htm), February 2007 issue, discuss disease risks, and effects on insects for "corn following corn." In a lead article, pathologist P. Vincelli notes that, "crop rotation is one of the most fundamental disease

control practices available." He then points out that "continuous corn provides a continuous food source for pathogens."

IPM/crop protection specialists at the Univ. of Illinois publish the BULLETIN, <http://www.ipm.uiuc.edu/bulletin/contents.php> (also available as a PDF version), a periodic compilation of extension oriented articles concerning crop pests, IPM strategies, and related material. Their concerns with eschewing crop rotation are expressed in several articles in issue no. 2, dated April 6, 2007.

Weed scientist A. Hager supports inclusion of multiple weed management tactics and avoiding exclusive reliance on any single procedure such as total postemergence weed control programs.

A related matter involves extensive use of glyphosate-based herbicides (with the longer range fear of glyphosate-resistant weed species that are already being reported) in non-rotated crops. Extension weed scientist D.E. Nordby reports that rising concerns have led a regional group of extension weed specialists to join forces to develop a series of publications and a web site, "Glyphosate, Weeds, and Crops," at <http://www.glyphosateweedsrops.org> focused on this important issue.

--excerpted, with thanks, from Corn & Soybean News, 7(2), February 2007; and The Bulletin, 2, April 2007. [#]

#### IPM in Arid Land Agriculture

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The Arizona Pest Management Center (APMC), an umbrella group within the Univ. of Arizona, exists to create a working environment in which the science and implementation of IPM can thrive in Arizona. To that end the Center has launched a new website <http://cals.arizona.edu/apmc/> to serve both faculty and stakeholders through providing information about IPM programs, grants, achievements, and opportunities. APMC partners with several IPM-related organizations, and focuses on arid land agriculture. A major, 4-year IPM thrust involving numerous APMC faculty aims to develop, improve, and deliver sustainable areawide management strategies for *Lygus* spp. in the western U.S. agricultural landscape while reducing all forms of risk. -> A. Fournier, Univ. of Arizona, Maricopa Ag. Ctr., 37860 W. Smith-Enke Rd., Maricopa, AZ 85239, USA. [Mailto:Fournier@cals.arizona.edu](mailto:Fournier@cals.arizona.edu).

--excerpted, with thanks, from "The Western Front," January 2007; and the APMC website.

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V. U.S. AID's IPM-Collaborative Research Support Program (IPM-CRSP)

--- news, developments

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Anti-locust Bioinsecticide Promising for West Africa

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Following in the steps of the pioneering internationally funded and executed Lutte Biologique contre les Locustes et les Sauteriaux program to explore and develop biopesticides to replace persistent pesticides such as dieldrin for control of Desert Locusts (*Schistocerca gregaria*), the IPM-CRSP has completed a successful field trial in SENEGAL based on application of Green Muscle(R) bioinsecticide, according to a U.S. Agency for International Development press release.

Entomologist L.J. Vaughan is the IPM-CRSP project technical coordinator for the trial, part of a US\$3.1 million assistance program to the region's farmers and herders following the devastating Desert Locust infestation of 2004. Dr. Vaughan's challenge involves further developing and refining biocontrol methods against grasshoppers and locusts in sub-saharan West Africa.

Green Muscle(R), a commercial formulation of the fungus *Metarhizium anisopliae* var. *acridium*, traces its potential as a mycoinsecticide back to observations by Russian scientist I.I. Metschnikoff more than a century ago, notes pesticide application specialist R.P. Bateman. One of the constraints to utilization of *M. anisopliae* was that it usually was only effective under high humidity conditions. A discovery that spores of this fungus could be made more infectious when formulated in an oil carrier eliminated dependence on environmental conditions and led to a product that could be applied in a manner similar to standard anti-locust materials.

Playing on "green muscardine fungus," the English name for *Metarhizium*, Dr. Bateman coined the name "Green Muscle" for the new product, and it was promptly adopted.

Green Muscle(R) itself is based on a specific isolate uniquely pathogenic to species of short-horned grasshoppers (Acridoidea and Pyrgomorphoidea) without off-target impact on other species. Its spores can be readily mass produced, and its physical properties composed of spores in a mixture of mineral and vegetable oils are said to make it an ideal candidate for augmentative biological control.

Successful large-scale field tests by FAO and Algerian authorities in 2005 were hailed as a break-through as "for the first time the biopesticide Green Muscle(R) was shown to be effective against Desert Locust under realistic field conditions over a substantial area," according to an FAO press release.

In the recent trials Vaughan found the recommended dose rate of 50g/ha was effective, but importantly more expensive to use than so-called conventional insecticides. However, results using half the dose rate (25g/ha) produced equal results of massive locust population reduction and put the technology in a far more competitive position.

Two more trials are said to be needed before Green Muscle(R) bio-insecticide can be cleared for low-dose application in West Africa.

-> L.J. Vaughan, IPM-CRSP, OIRED, 1060 Litton-Reaves Hall, Virginia Tech,  
Blacksburg, VA 24061, USA. Mailto:LarryJV@vt.edu.  
Phone: 1-540-231-3893.

--thanks for information: R. Muniappan; USAID (press release and A.  
Badiane); R.P. Bateman; FAO; IPARC; and LUBILOSA.

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## VI. IPMnet CALENDAR--Update

-- recent additions and revisions to a global listing of  
forthcoming IPM-related events, 2007-2011.

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### NOTES:

1=> The IPMnet CALENDAR--Update, lists only:

- (N)ew events not previously cited in IPMnet NEWS; and,
- [R]evised events, incorporating new information compared  
to a previous mention in IPMnet NEWS.

2=> The IPMnet CALENDAR, Latest Complete Version, is e-mailed annually  
to all IPMnet email subscribers; however, it may be requested  
any time from IPMnet at mailto:IPMnet@science.oregonstate.edu.

3=> Please send information about future events, or revisions, to:  
IPMnet NEWS, at mailto:IPMnet@science.oregonstate.edu. Information  
listed in the IPMnet CALENDAR was supplied by, and collected from,  
various sources; IPMnet greatly appreciates all cooperation.

(N)ewly Listed, or [R]evised Entries: as of 11 April 2007

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2007

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(N) 06-10 May \* 15TH INTERNATIONAL SYMPOSIUM ON MODERN  
FUNGICIDES AND

ANTIFUNGAL COMPOUNDS, Friedrichroda, GERMANY.

[Http://www.foto-webdesign.de/nina/index.html](http://www.foto-webdesign.de/nina/index.html).

(N) 09-10 May \* REGISTRATION OF AGROCHEMICALS IN EUROPE 2007,  
Brussels

BELGIUM. [Http://tinyurl.com/2ncwtz](http://tinyurl.com/2ncwtz).

(N) 01-03 June \* 25TH NATIONAL (US) PESTICIDE FORUM, "Changing Direc-  
tions in a Changing Climate: Solutions for Health and the Environ-

ment," Chicago, IL, USA. Contact: Beyond Pesticides, 701 E St. SE,  
#200, Washington, DC 20003, USA. Mailto:info@beyondpesticides.org.  
Fax: 1-202-543-4791. Phone: 1-202-543-5450.  
Http://www.beyondpesticides.org/forum/.

(N) 17-21 June \* 7TH CONGRESO LATINOAMERICANO DE ENTOMOLOGIA y  
42ND  
CONGRESO NACIONAL DE LA SOCIEDAD MEXICANA DE ENTOMOLOGIA,  
Acapulco,  
MEXICO. Contact: C. Luna L., mailto:CLuna63@hotmail.com.  
Http://www.iztacala.unam.mx/sme/congreso.html.

(N) 06 July-05 August \* 2ND REGIONAL NEMATOTOLOGY TRAINING COURSE,  
Nairobi, KENYA, (Nematology Initiative for Eastern and Southern  
Africa). Contact: Z. Sibanda, mailto:MSibanda@ecoweb.co.zw.  
Http://www.africancrops.net/Training/nematology.htm.

(N) 16-18 July \* ENTO '07, ROYAL ENTOMOLOGICAL SOCIETY NATIONAL  
MEETING  
and SYMPOSIUM ON AQUATIC INSECTS, Edinburgh, UK. Contact: RES, 41  
Queen's Gate, London SW7 5HR, UK. Fax: 44-0-20-758-18505.  
Phone: 44-0-20-758-48361. Http://www.ento07.org.uk.

(N) 25-27 July \* 34TH CONGRESO SOCOLEN (SOCIEDAD COLOMBIANA DE  
ENTOMOLOGIA), Cartagena, COLOMBIA. Contact: J.Hernandez D.,  
mailto:John.HernandezDoria@gmail.com.  
Http://www.socolen.org.co/congreso/congreso.php.

(N) 03-05 September \* EPPO WORKSHOP ON INSECTICIDE RESISTANCE OF  
\_Meligethes\_ spp. (Pollen Beetle) ON OILSEED RAPE, Berlin, GERMANY.  
Contact: EPPO/OEPP, 1 rue Le Notre, 75016 Paris, FRANCE.  
Fax: 33-1-4224-8943. Phone: 33-1-4520-7794. Mailto:hq@eppo.fr.  
Http://tinyurl.com/yuy7sy.

(N) 10-14 September \* SYMPOSIUM, RECENT ADVANCES IN BANANA CROP  
PRO-  
TECTION FOR SUSTAINABLE PRODUCTION AND IMPROVED  
LIVELIHOODS, White  
River, SOUTH AFRICA. Contact: I. Van den Bergh, Parc Sci. Agropolis  
II, 34397 Montpellier Cedex 5, FRANCE. Fax: 33-4-67-610334.  
Phone: 33-4-67-611302. Mailto:I.VandenBergh@cgiar.org.  
Http://tinyurl.com/26z4as.

(N) 11-12 September \* ADVANCES IN VIROLOGY, Greenwich, Kent, UK.  
Contact: Carol, Assn. of Applied Biologists, Warwick, HRI,  
Wellesbourne, Warwick CV35 9EF, UK. Fax: 44-0-1789-470234.

Mailto:Carol@aab.org.uk. Phone: 44-0-1789-472020.  
Http://www.aab.org.uk.

(N) 08-10 October \* INTERNATIONAL SYMPOSIUM, AGRICULTURAL FIELD TRIALS--

TODAY AND TOMORROW, Stuttgart, GERMANY. Contact: A. Rapp, Univ. Hohenheim, Inst. for Crop Prod. and Grass. Rsch., Fruwithstrasse 23, 70599 Stuttgart, GERMANY. Mailto:RappA@uni-hohenheim.de.  
Fax: 49-0711-459 24345. Phone: 49-0711-459-23833.  
Http://www.uni-hohenheim.de/bioinformatik/.

(N) 15-16 November \* COLLOQUE SUR LA REDUCTION DES TRANSFERTS DE PRO-

DUITS PHYTOSANITAIRES DAN LES EAUX DE SURFACE, Paris, FRANCE.  
Contact: AFPP, 6 Blvd. de la Bastille, 75012 Paris, FRANCE.  
Fax: 33-1-43-44-2919. Phone: 33-1-43-44-8964.  
Mailto:afpp@afpp.net. Http://www.afpp.net.

(N) 28-30 November \* BIOPESTICIDE CONFERENCE, Palayamkottai, Tamil Nadu, INDIA. Contact: K. Sahayaraj, Org. Secty., Dept. of Adv. Zool. and Biotech., St. Xavier's Coll., Palayamkottai 627 002, Tamil Nadu, INDIA. Mailto:ttn\_ksraj@sancharnet.in. Fax: 91-0462-256-1765. Phone: 91-0462-256-0744.

(N) 05-06 December \* THEORETICAL POPULATION ECOLOGY & PRACTICAL BIOCONTROL--BRIDGING THE GAP, Warwickshire, UK. Contact: Carol, Assn. of Applied Biologists, Warwick, HRI, Wellesbourne, Warwick CV35 9EF, UK. Fax: 44-0-1789-470234. Phone: 44-0-1789-472020. Mailto:Carol@aab.org.uk. Http://www.aab.org.uk.

(N) 11-12 December \* 20TH CONFERENCE DU COLUMA Dijon, FRANCE.  
Contact: AFPP, 6 Blvd. de la Bastille, 75012 Paris, FRANCE.  
Fax: 33-1-43-44-2919. Phone: 33-1-43-44-8964.  
Mailto:afpp@afpp.net. Http://www.afpp.net.

(N) 18-21 December \* II ASIAN CONGRESS OF MYCOLOGY AND PLANT PATHOLOGY,

Hyderabad, Andhra Pradesh, INDIA. Contact: G. Bagyanarayana, Dept. of Botany, Osmania Univ., Hyderabad 500 007, AP, INDIA.  
Mailto:GBagyan@rediffmail.com. Phone: 91-40-276-82244.

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2008

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(N) 09-11 January \* INTERNATIONAL ADVANCES IN PESTICIDE APPLICATION  
2008, Cambridge, UK. Contact: Carol, Assn. of Applied Biologists,

Warwick, HRI, Wellesbourne, Warwick CV35 9EF, UK.  
Fax: 44-0-1789-470234. Mailto:Carol@aab.org.uk.  
Phone: 44-0-1789-472020. Http://www.aab.org.uk.

(N) 21-25 April \* IOBC WORKING GROUP MEETING, "Integrated Control in Glasshouses and Outdoor Nursery Stocks," Sint Michielsgestel, NETHERLANDS. Contact: G. Messelink, Wageningen UR Greenhouse Hort., PO Box 20, 2265 ZG Bleiswijk, NETHERLANDS. Fax: 31-174-636-835. Phone: 31-174-636-875. Mailto:Gerben.Messelink@wur.nl. Http://www.iobcgreenhouse2008.com.

(N) 13-18 July \* 5TH INTERNATIONAL CONGRESS OF NEMATOLOGY, Brisbane, QLD., AUSTRALIA. Contact: M. Hodda, CSIRO Entomology, GPO Box 1700, Canberra, ACT 2601, AUSTRALIA. Phone: 61-2-6246-4371. Fax: 61-2-6246-4000. Mailto:Mike.Hodda@csiro.au. Http://www.csiro.au/events/pe4z.html.

(N) 03-05 September \* ENTO 08, ROYAL ENTOMOLOGICAL SOCIETY NATIONAL MEETING, Plymouth, Devon, UK. Contact: P. Smithers, School of Biol. Sci., Univ. of Plymouth, Drake Circus, Devon PL4 8AA, UK.

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2009  
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(N) 08-13 February \* 3RD INTERNATIONAL SYMPOSIUM ON BIOLOGICAL CONTROL OF ARTHROPODS, "Maximising Success while Minimising Risk," Christchurch, NEW ZEALAND. Contact: H. Shrewsbury, Professional Devel. Gp., PO Box 84, Lincoln Univ., Canterbury, NEW ZEALAND. Mailto:ShrewsbH@lincoln.ac.nz. Phone: 64-3-325-8955. Fax: 64-3-325-3685. Http://events.lincoln.ac.nz/isbca09/.

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2010-2011  
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No (N)ew or [R]evised listings to report for these years.

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| *IPMnet NEWS* #154, April/May 2007 * ISSN: 1523-7893,
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