



WSSA

WEED SCIENCE SOCIETY OF AMERICA

Volume 38, No. 3
July, 2010

Newsletter



PRESIDENT'S MESSAGE

This year has already been especially rich with opportunities to give voice to our discipline and we have had a number of important occasions to do so. Impatient with desire for change, we have seized the chance to bring Weed Science into the national discussion and have real impact in key areas.

When the USDA National Institute of Food and Agriculture (NIFA) and Food Research Initiative (AFRI) competitive grants program request for applications (RFAs) was released with little opportunity for funding Weed Science research, extension or education, WSSA developed an advocacy program that sent our message of disappointment loud and clear. This advocacy effort went forward with clear discussions at NIFA and press releases that were widely cited in trade articles, newspapers and even radio talk shows. We do know that NIFA has heard us; now we will see if they have listened. This effort highlights in the importance and incredible productivity of our Public Awareness Committee and we thank them deeply for their efforts. We also appreciate Dave Mortenson (Pennsylvania State University) and Mike Barrett's (University of Kentucky) efforts in representing WSSA's interest at the two Plant Pest and Biology Workshops held this year.

It is quite clear that we are positioned now as a Discipline because the past national investment in Agricultural Science. However, we've seen that over the years, the attraction to the study of agriculture has declined and a growing skills gap is developing. The difficult trend can be seen in the steady disappearance in faculty positions in agriculture at the state and land grant universities; this only serves to steer students in the basic sciences away from the agricultural sciences at the very moment job opportunities are expanding. The education of a sufficient number of broadly trained and appropriately specialized new Weed Scientists represents one of the greatest challenges to the profession. To meet this need, the *Coalition for a Sustainable Agricultural Workforce* was developed with the able leadership of Emilio Oyarzabal (Monsanto); this group is a partnership of professional scientific societies and agricultural industry leaders to generate the support needed to train future generations of agricultural scientists for careers at our uni-

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versities, industries and government agencies. Congress created NIFA to tackle US priorities; certainly one of these priorities must be the training and development of young scientists eager to make an impact on agriculture.

Also this year, we created a special WSSA Herbicide Resistance Education Committee to address emerging issues on the topic. Lead by David Shaw (Mississippi State University), this committee is developing a comprehensive education strategy on herbicide resistance. The primary goal is to have WSSA seen as the go-to organization for science-based information on herbicide resistant weeds. One critical deliverable resulting from this committee's activities will be the development of an "Herbicide-Resistant Weeds Management Report," funded by USDA-APHIS. In part, the justification for this report notes that "there exists a need for a systematic understanding of the most contemporary publically available information on the extent to which weed resistance management programs are being utilized in various managed ecosystems and an understanding of how successful they are at achieving their goals." This report is scheduled to be completed in mid-2011; sooner if possible.

In close communication with EPA through Jill Schroeder (New Mexico State University), our WSSA-EPA Subject Matter Expert, we have been steadily moving forward to coordinate our resistance management education efforts with the Agency. We have a lot of support for progress here and I expect that we can meet this need. As Weed Scientists, we understand that a program of resistance management education will help only if it is based on a comprehensive understanding of resistance, both as an economic as well as a biological phenomenon, and only if it includes active participation by all parties that contribute significantly to herbicide use decisions. We have growing support for this effort from the National Research Council, National Cotton Council, National Corn Growers Association, American Soybean Association, National Association of Conservation Districts, CropLife America and the North America Herbicide Resistance Action Committee. A wide range of new materials are planned for the WSSA website including new training modules targeting the Certified Crop Advisor program, grower organization and Extension Specialist. David has formed a subcommittee to begin developing the training modules and the National Cotton Council and the National Corn Growers Association have pledged to provide materials from the earlier modules they've sponsored and have also offered to support revisions or development of the new efforts. Materials are planned in a wide range of formats and at a number of levels, including: foundational information, region-specific, commodity-specific, and weed-specific resources. This conversation has also had international impact and was the topic of a North America Free Trade (NAFTA) Technical working Group discussion where we worked to emphasize resistance management education in herbicide training programs rather than command and control regulatory approaches.

One of WSSA's strategic missions it to provide science-based information to the public and government policymakers while promoting research, education, and outreach activities. Through our Science Policy Director Lee VanWychen and the EPA Subject Matter Expert, Jill Schroeder, we remain deeply committed to engaging EPA and increasing their access to our science on a number of issues. The Subject Matter Expert position has become a template for other scientific societies and we welcome the recent establishment of similar positions from the Entomological Society of America – Plant Insect Ecosystems Section and the American Phytopathological Society; the more we work together with other scientific societies, the greater potential we have for accomplishments. Earlier this year, the three societies provided joint comments on the 2010 EPA Spray Drift Pesticide Registration Notice; this type of collaborative effort is a first for our Society.

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WSSA FUTURE MEETING SITES AND DATES

2011

Hilton Hotel

Portland, Oregon

February 7-10, 2011

51st Annual Meeting

For more information:

www.wssa.net

**WSSA HOME PAGE
ACCESSED AT:
www.wssa.net**

**THINK NEWSLETTER
Deadline for October issue
September 1, 2010**

WSSA NEWSLETTER

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The regulation of spray drift remains problematical; the risk assessment tools that EPA employs are based on aging data and the application technology in current use has improved significantly. This fall, WSSA will host Bob Wolf (University of Nebraska) at EPA to give the Agency a more clear view of the progress that has been made in creating more accurate methods to apply herbicides with less drift. We expect the Agency to be very interested in our progress as they develop the guidelines for Drift Reduction Technology validation protocols. WSSA supports science-based risk assessment that considers the benefits of pest control and the clear validation of the advancements in application technology.

In the service of our public mission, WSSA has been very involved with the developing National Pollutant Discharge Elimination System (NPDES) permitting program for pesticide use in the riparian corridor. Congress enacted the Clean Water Act (CWA) more than 30 years ago, adding and later updating the NPDES permitting program several times since then. In the decades that EPA has administered the CWA, the Agency has never issued an NPDES permit for the application of a pesticide to target a pest that is present near or in water. Instead, EPA has been regulating these types of applications through the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). Overall, this new decision marks a partial pre-emption of FIFRA by the CWA, layering numerous new requirements on applicators of legally-registered products that have wide value in society. This new rule also exposes applicators to extensive legal jeopardy through citizen lawsuits and Agency actions. Without careful design and execution, the implementation of this pesticide NPDES General Permit could have significant unintended consequences. To help EPA understand the impact of this program, Kurt Getsinger (US Army

Corps of Engineers, Aquatic Plant Management Society) and Jill Schroeder have worked with EPA Office of Water to help them appreciate the need for weed management in the riparian corridor; part of this effort has been the organization of an August tour for the Agency to more deeply understand New Mexico's salt cedar management issues (including endangered species impacts) on the riparian areas of the southern and middle Rio Grande. Additional tour goals include the discussion of water quality issues and vegetation management as water is supplied from the Rio Grande through irrigation canals to the agricultural producers and homeowners of Las Cruces. WSSA is now preparing comments on the proposed NPDES Pesticide General Permit for submission by Lee VanWychen to provide EPA with our expert insight into its various aspects.

Planning is underway for the 2011 National Invasive Species Advocacy Week that employs the efforts of the *Healthy Habitats Coalition* (HHC). This will be a wonderful opportunity for states to pull their knowledge and passion together for a regional and national invasive species advocacy effort that will ask for specific on-the-ground invasive species funding. The NISAW Steering Committee in April includes John Cantlon (DuPont), George Beck (Colorado State University), Lee VanWychen (WSSA), Fred Raish (North American Weed Management Association), Eric Lane (Colorado Dept of AG), Terry Witt (Oregonians for Food and Shelter) and myself. Two HHC visits to Washington, DC have already occurred to connect with USDA Under Secretary Harris Sherman, Senator Michael Bennett, Senator Mark Udall, Senator Ben Nelson, Senator Mike Enzi, Senator Mike Johanns, Senator Harry Reid, Representative Betsy Markey, Representative John Salazar, Representative McMorris-Rodgers, the National Association of Counties, National Asso-

ciation of Conservation Districts, Natural Resources Conservation Service, American Farm Bureau Federation, the Federal Highways Administration, Farmland Trust, and the National Institute of Food and Agriculture.

I hope that you have noticed the addition of Spanish abstracts to our *Weed Technology Journal* that started last February, 2010. This action recognizes the rapid advances in Latin American agriculture and is intended to create a more open Society with greater emphasis on making our science available to all whom would find utility. Since *Weed Technology* brings forward original research in applied aspects of weed management and can have immediate applicability, it was chosen as the first of the three WSSA journals to publish Abstracts in Spanish. Based on the success and response to including Spanish Abstracts in *Weed Technology*, WSSA will consider widening the inclusion of Spanish Abstracts in our other journals, *Weed Science* and *Invasive Plant Science and Management*.

Weed Science has only been successful in meeting the Nation's food and fiber needs and protecting our natural areas through your many advances in science, crop protection and land management. We know that as Weed Scientists, we have a special responsibility to contribute to both the national and international effort through our basic and applied research into weed physiology, stewardship and the management of natural and managed ecosystems. Because our community of committed scientists provides a unique strength, WSSA has clearly become a visible and recognized force in the public and national discussion. This is a very exciting time to be your President and I am very proud to be a Weed Scientist.

In your service,
John Jachetta, Ph.D,
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CALL FOR PAPERS

2011 WSSA MEETING

51st Annual Meeting of the Weed Science Society of America
Hilton Hotel • Portland, Oregon
February 7-10, 2011

INVITATION

You are invited to submit titles and abstracts for papers to be presented at the Weed Science Society of America Meeting February 6–10, 2011, Monday to Thursday, in Portland, Oregon. Volunteer papers may be presented orally in one of the section meetings or as a poster. An individual may personally present only one volunteer, non-poster paper. This rule will be strictly followed. In addition to the volunteer paper, an individual may present a poster paper, may be co-author of papers presented by other authors, and may present an invited symposium paper.

SUBMISSION DEADLINES

Abstract Titles and Author Information must be submitted electronically by **October 4, 2010**, to be considered. To submit abstract titles/authors and abstract texts electronically, go to the Weed Science Society of America homepage (<http://www.wssa.net>). The submission site will be available after September 1, 2010. Only electronically submitted titles received by the deadline will be accepted. This deadline applies to symposium papers, as well as to volunteer papers and posters. Abstract texts must be submitted by **January 17th, 2011**. The program will be posted on the WSSA worldwide web homepage (<http://www/wssa.net>) and members will be informed when it is available by "List-Serve" from Joyce Lancaster. Printed programs will be mailed to those US attendees pre-registered before **January 7th, 2011** and will be provided to all international attendees and on-site registrants at the meeting registration desk.

MEETING SCHEDULES

Volunteer papers will be presented within a 20-minute schedule. Concurrent sessions dictate that the time schedule be strictly followed. To allow for introduction, transition of speakers, and other slippage, you should plan to present your paper in 15 minutes. Papers presented should report the results of completed research or other substantive information. Information should not have been presented at a previous WSSA national meeting. Ideally, information reported at the WSSA Meeting should be published in *Weed Science*, *Weed Technology*, *Invasive Plant Science and Management*, or a similar outlet in the near future.

SYMPOSIUM PAPERS

Speakers participate in the symposia by invitation. Deadlines and procedures for preparing and submitting

abstracts are the same as for volunteer papers, except that the author must send a copy of the abstract to the symposium organizer.

PROJECTION EQUIPMENT

The WSSA had adopted LCD projection for PowerPoint presentations as the standard and this will be used exclusively for the 2011 meeting. **NO** 35mm projectors will be available. LCD projectors and computers will be supplied by WSSA members and coordinated by section chairs. Screens, microphones, carts, and extension cords will continue to be supplied by AV services and paid for by the Society. In order to make this process go as smoothly as possible, please follow the guidelines below.

Format

All presentations **MUST** be in PowerPoint (any version) for MS Windows (PC compatible). PowerPoint 2007 will be the software used. Macintosh / Apple formats will **NOT** be supported. Your presentation must be saved as a PowerPoint show file. **The section chairs have requested that ALL presentations be prepared and uploaded on the abstract submission site so that preloading prior to the meeting can be accomplished** (see Submission of Presentations).

Please limit the size of presentations to less than 25 MB. No audio clips or sounds will be allowed. Video clips are discouraged unless absolutely necessary. PowerPoint animation is discouraged. Please contact the section chair at least one week **PRIOR** to sending your presentation if you need to use a video clip. Limit fonts used in the presentation to basic fonts, as not all machines may have the same choice of fonts. Examples of standard fonts are Times, Arial, Courier, Tahoma, or similar equivalents. Section chairs and computer operators are not responsible for changes in fonts, bullets, and other formatting at the time of presentation. Use up-to-date virus protection software to avoid infecting the computers provided by the section chairs.

Submission of Presentations

Presentations must be uploaded on the submission site prior to the meeting. Section chairs have indicated that they must receive the presentation at least one week in advance of the meeting (**no later than January 26, 2011**). You will be able to preview your presentation at the meeting to ensure that the formats/fonts are all as you intended them

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CALL FOR PAPERS CONTINUED from pg 4

to be. Please check the meeting program for the time and place. Due to the limited time and equipment, last minute editing is highly discouraged. All presentations will be transferred to a CD-R for each session. At the conclusion of the session, the CD-R and other copies of the presentation(s) will be destroyed. Submission of files at the time of the presentation or at any other time during the session will **NOT** be allowed.

Equipment

A Windows PC laptop computer and projector will be provided for each session. Presenters will **NOT** be allowed to use their own computers in the sessions. If possible, computers will be located on the podium in each session. If this is not possible, an infrared remote providing forward and backward control of the PowerPoint presentation will be provided in each session.

Be alert to changes, modifications, and refinements in these guidelines during the next few months (and years). This information will be published in the October and January issues of the WSSA Newsletter.

SUBMISSION OF ABSTRACT

Volunteer papers, posters, and symposium papers all require abstracts to be submitted electronically. To submit abstract titles/authors and abstract texts electronically, go to the Weed Science Society of America homepage (<http://www.wssa.net>).

• After **September 1, 2010**, you will be able to access the Title/Abstract Submission Page form from the WSSA homepage. Additional instructions will be provided on the Title/Abstract Submission Page.

The Program will be printed from information exactly as it is submitted, other than format and font changes to make all abstracts the same; therefore, proofread very carefully.

Title Submitters will receive an email indicating that their abstract was received and Title Submitters and Presenting Authors will receive later email confirming the section/day/time where the paper will be presented.

ABSTRACT PREPARATION

The following are the guidelines for the preparation and submission of an abstract. Be alert to additional instructions that may appear on the abstract submission site itself.

1. **Contents** – The abstract should include a brief overview of essential aspects of experimental procedures and should highlight significant results and their interpretation. Write the abstract so it consists entirely of information. Do not include statements such as “The results of the experiments will be presented” or “The significance of these results will be discussed.”
2. **Typing** – Typing instructions will be provided on the Title/Abstract Submission Page of the WSSA website.
3. **Titles, author(s), and location** – In the abstract, authors will be identified by occupational affiliation and location, not by mailing address.

Capitalize only the first word and proper names in the title and end the title with a period. Include both the common and scientific names of weeds and uncommon crop plants in the title, but only the common names of herbicides and well-known crop plants. You do not need to type the title in bold-face; the system will do that automatically. The site will provide a method for indicating the presenter, be sure to specify the presenting author.

Example 1. The occurrence and densities of weeds in Illinois, Iowa, and Indiana as noted from crop scouting records. David R. Pike*, University of Illinois, Urbana; and David Harms, Crop Pro-Tech, Bloomington, IL.

Example 2. Performance of sulfentrazone for control of yellow nutsedge (*Cyperus esculentus*) in southern peas (*Vigna unguiculata*). Jerry J. Wells* and Ronald E. Talbert, University of Arkansas, Fayetteville.

4. **E-mail Address** – For better communication among researchers, place the e-mail address of the senior author following the last sentence of abstract.
5. **Herbicide nomenclature** – Use common names of herbicides as given in *Weed Science* (2003) 51:1022–1028. When the common name refers to the parent acid, the salt or ester forms used in the experiments should be identified at the first mention of the common name (e.g., methyl ester of diclofop). At the first mention of a herbicide application rate, list whether the weight is acid equivalent (ae) or active ingredient (ai) (e.g., kg ai ha⁻¹). If no common name is available, use its designation (trade name or code) followed by the full chemical name. If the chemistry is confidential, identify source (company) in parentheses after designation.
6. **Adjuvant nomenclature** – Where possible, use WSSA *Herbicide Handbook*, 9th edition (2007), p. 421-423; *Weed Science* (1985) 33 (Suppl. 1): 22–23; or WSSA *Monograph* (1982) *Adjuvants for Herbicides*. Otherwise, use the most complete available chemical description of the adjuvant.
7. **Weed nomenclature** – Identify weeds by common names. At first mention of a weed, whether in the title or text, follow the common name with the scientific name (italicized and in parentheses). Do not repeat the scientific name in the text if given in the title. Use common and scientific names of weeds as given in the *Composite List of Weeds*, published by WSSA in 1989. If there is no WSSA-designated common name, use common scientific names from another source such as *Hortus Third*.
8. **Crop nomenclature** – Scientific names for crop plants are optional. They are not needed for well known crops, but should be included for less common crops and whenever needed for clarity. Place scientific names (italicized and in parentheses), following first mention of the common name, whether in the title or text.

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CALL FOR PAPERS CONTINUED from pg 5

9. **Soil nomenclature** – Include the soil series with textural classification and the subgroup name using the terminology of the U.S. Dept. Agric. Natr. Res. Conserv. Serv. publication, *Soil Taxonomy*, U.S. Gov. Printing Office, Washington, D.C. 1975. For soils outside the U.S.A., use the local official terminology.
10. **Measurements** – Report all measurements in the International System of units (SI). Abbreviate units of measure if preceded by a number. See *Weed Science* (2003) 51:1029–1033 for additional suggestions and WSSA *Herbicide Handbook*, 9th edition (2007), p. 431–434 for metric conversions.
11. **Abbreviations** – Use abbreviations as shown in *Weed Science* (2004) 52:1063, WSSA *Herbicide Handbook*, 9th edition (2007), p. 419–420 or CBE Style Manual.
12. **Numbers** – Use Arabic numerals for all numbers with two or more digits and for all measurements such as time, weight, length, area, quantity, or degree except when the number is the first word in the sentence. Spell out numbers when they are the first word in a sentence or when they are less than 10 and not measurements.
13. **Tables and figures** – There will be a system in place on the abstract submission site to add these. Enter literature citations with the abstract text.

SUBJECT INDEX

A subject index consisting of weed/crop names, herbicides, and other key words will be included in addition to the author index. Providing key words to be used in indexing will be the responsibility of the authors. Words in the title are not automatically indexed. Only key words provided by the authors will be used. The abstract submission site utilizes a new key word system. There are drop down boxes for each type of subject with a listing of choices. It is recommended that you utilize there pre-selected choices although there is an area for authors to type in user defined key words if not found in any of the selections.

1. A **maximum** of five key words per abstract will be indexed. Most abstracts should only require two or three words.
2. Use scientific name of weeds, without authority. Genus plus species is considered one key word.
3. Genera names may be used when more than one species in that genus is mentioned in the abstract.
4. Use common names of crops (for less common crops, use scientific names without authority).
5. Use common names of herbicides and other chemicals (including adjuvants) or code numbers for experimental compounds.
6. Chemical class names, e.g., sulfonylureas, should be used when more than one herbicide in that class is mentioned in the abstract.

POSTERS

The information presented as a poster is very similar to that presented as an oral paper, but it is presented on a poster board rather than orally in a meeting. Directions for preparing a poster can be found under POSTER SESSION (see below). The difference between a poster and a commercial exhibit must be clearly understood. Commercial exhibits are presented by Sustaining Members of WSSA and consist of educational information of a promotional nature about products or services. Posters may be presented by personnel of the same sustaining member companies and may concern commercial products, but they must present results of completed research with these products rather than promotional material about them.

POSTER SESSION

There may be split sessions for presentation of posters. In addition to specifying Poster Session, authors should indicate a category from Section 1 through 14. Poster presentations will be grouped by these categories.

1. Authors are expected to be at their poster during the period reserved for viewing the poster to answer questions and to discuss their research with interested parties.
2. Participants in Section 15, the Poster Session, will meet at a location designated in the program before the Poster Session begins to elect a chair-elect of the section for 2012 (Section Chair in 2013) and discuss recommendations for improvement of the Poster Session.
3. **Poster Boards. One board 48 x 48 inches and an easel will be provided for each poster paper. There will be no exceptions to the rule of one board per paper.**
4. Content of Paper. Text, graphs, and tables must be easily read from a distance of 6 feet. Titles and headings should be larger and readable from a greater distance.
5. Because of cost and logistics, it will not be possible to provide electrical connections, telephone lines for computer connections, video equipment (VCR and video monitor), or other special equipment for posters.
6. Groups of authors may present more than one poster, but at least one author must be present at each poster during the time designated exclusively for viewing the poster.

Section Chairs for 2011 Program are listed on page 7.

SECTION CHAIRS FOR 2011 PROGRAM

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WSSA UNDERGRADUATE RESEARCH AWARD – 2011

The Weed Science Society of America (WSSA) has developed an Undergraduate Student Research Grant designed to encourage and involve exceptional undergraduates in agricultural research. Interested faculty members are encouraged to identify potential award candidates and discuss the possibility of sponsoring a research project. Awards may be used as a stipend, for research budget expenses (travel, supplies, etc.), to defer fees, to defray living expenses for summer research, or any combination of these items.

AWARD: Up to \$1000 for support of undergraduate research to be conducted over a minimum of one quarter/semester during 2011. This award may be used to defray the cost of research supplies or as a stipend. Support of a faculty sponsor is required. Awards will be made to the student, to be administered by the faculty sponsor's department.

APPLICANT: The applicant is an undergraduate student with a strong interest in Weed Science. Students majoring in all related disciplines may apply.

TO APPLY: Applicants should prepare a 2–3 page research proposal including name, address, phone number, E-mail address, title, objective, experimental approach, discussion, budget and references. The discussion section of the proposal should describe the expected results and their possible significance to Weed Science. The student should provide a cover letter in which general academic and career goals are discussed. A copy of the student's academic transcripts must also be provided.

FACULTY SPONSOR: Any faculty member who is actively engaged in Weed Science research is qualified to be a sponsor. The faculty sponsor should review the research proposal with special attention to the budget; the distribution of funds should be approved by both the student and sponsor. In addition, the sponsor should provide a letter of reference including a statement of his/her willingness to supervise the proposed research and to provide needed space, equipment and supplies above those requested in the proposal. The sponsor is encouraged to assist the student in presenting his/her results at a regional Weed Science Meeting.

HOW TO APPLY: The completed proposal, academic transcripts, cover letter and faculty letter of support should be forwarded to: Dr. John Jachetta, Dow AgroSciences, 9330 Zionsville Road, Indianapolis, IN 46268-1054; Phone: (317) 337-4686, Fax (317) 337-4649, E-mail: jjjachetta@dow.com. Proposals should be received no later than November 13, 2010. Funding decisions will be made by January 21, 2011, and presented at the 2011 WSSA National Meeting Awards Ceremony.

MARK YOUR CALENDAR!

7th International IPM Symposium • March 27–29, 2012 Memphis, Tennessee USA

The 7th International IPM Symposium, "IPM on the World Stage," will be held in Memphis, Tennessee USA on March 27–29, 2012 at the Memphis Cook Convention Center. Headquarters hotel will be the Memphis Marriott Downtown.

Symposium sessions will address Integrated Pest Management (IPM) across disciplines, internationally, in the market place, urban settings, greenhouses and more. As we begin planning plenary sessions, your input is welcome. Please send your suggestions to Margaret Appleby, program committee co-chair, at margaret.appleby@ontario.ca before August 2, 2010.

The 6th IPM Symposium, held in 2009, attracted more than 700 research, education, government, industry and environmental and health professionals from 29 countries for three days of presentations, networking and organizational meetings on key pest management issues.

"Integrated Pest Management, or IPM, is a long-standing, science-based, decision-making process that identifies and reduces risks from pests and pest management related strategies. It coordinates the use of pest biology, environmental information, and available technology to prevent unacceptable levels of pest damage by the most economical means, while posing

the least possible risk to people, property, resources, and the environment. IPM provides an effective strategy for managing pests in all arenas from developed residential and public areas to wild lands. IPM serves as an umbrella to provide an effective, all-encompassing, low-risk approach to protect resources and people from pests." (IPM Roadmap, May 17, 2004)

For up-to-date information on the Symposium, visit the website:

[http://www.ipmcenters.org/
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To receive future notices about the Symposium, send your e-mail address to

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Glyphosate Resistance in Crops and Weeds: History, Development, and Management

Vijay K. Nandula (Editor)

978-0-470-41031-8 • Hardcover • 344 pages • August 2010 • \$99.95

Presents the latest technology and strategies for managing glyphosate-resistant weeds

Glyphosate-resistant (GR) crop technology has revolutionized crop production in many parts of the world, offering such benefits as reduced fuel costs and improved soil conservation; however, GR weeds are becoming one of the most pressing problems in crop protection, threatening the sustainability of glyphosate and GR crop technology. This book details the development of glyphosate resistance, offering interdisciplinary approaches for managing GR weeds and reducing their spread.

Glyphosate Resistance in Crops and Weeds features contributions from leading experts in the many disciplines needed to fully understand GR crops and weeds. The authors have reviewed and analyzed all the latest research findings as well as the latest technologies developed to manage GR crops and weeds. Coverage includes:

- Developmental processes of first and subsequent generations of GR crops
- Separate chapter on the economic impact of GR weeds
- Strategies for effectively managing glyphosate resistance
- Regional management issues surrounding GR weeds around the world
- Genetics and genomics of glyphosate resistance
- Methods of testing for glyphosate resistance

References guide readers to the primary literature for further investigation of individual topics. A compilation of commonly used terms in herbicide resistance and their definitions is also provided.

With the productivity and health of croplands threatened around the world by GR weeds, this review of glyphosate resistance is essential for agricultural chemists, weed scientists, plant scientists, crop consultants, and agronomists.

VIJAY K. NANDULA, PhD, is an assistant research professor at Mississippi State University. His current research focuses on monitoring, documenting, and characterizing the herbicide-resistant weed populations in Mississippi, centering on their level of resistance, mechanisms, multiple resistance, and biology.

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CALENDAR OF UPCOMING EVENTS

DATE	EVENT	LOCATION	CONTACT
November 15–18, 2010	Annual Conference of the Canadian Weed Science Society	Hotel Delta Regina Regina, Saskatchewan	Rick Holm rick.holm@usask.ca or Tel: 306-966-5009 Clark Brenzil Clark.Brenzil@gov.sk.ca or Tel: 306-787-4673
May 25–27, 2010	Symposium: Climate Change and the Implications for Plant Protection	University of Guelph Guelph Ontario Canada	Tel: 519-767-50001 info@open.uoguelph.ca www.cropprotection.open.uoguelph.ca
June 1–4, 2010	2010 Weeds Across Borders	National Conservation Training Center Shepherdstown, West Virginia	Emily Rindos Center for Invasive Plant Management Tel: 406-994-7862 emily.rindos@montana.edu www.weedcenter.org/wab2010
July 27, 2010	NEWSS Weed Science Contest	Cornell University Ithaca, New York	www.newss.org
January 3–6, 2011	NEWSS 65th Annual Meeting	Renaissance Harborplace Hotel Baltimore, Maryland	www.newss.org
February 7–10, 2011	51st Annual Meeting Weed Science Society of America	Hilton Hotel Portland, Oregon	www.wssa.net
June 7–12, 2011	11th World Congress on Parasitic Plants	Martina Franca, Italy	http://ipps2011.ba.cnr.it Organizer: Maurizio Vurro maurizio.vurro@ispa.cnr.it or ipps2011@area.ba.cnr.it
September 11–16, 2011	XIIIth International Symposium on Biological Control of Weeds	Kohala Coast of the Big Island of Hawaii	http://uhhconferencecenter.com/xiii_isbcw.html
March 27–29, 2012	7th International IPM Symposium, “IPM on the World Stage”	Memphis Cook Convention Center Memphis, Tennessee, USA	Symposium Website: http://www.ipmcenters.org/ipmsymposium12/