

# NCWSS • News

North Central Weed Science Society

Vol 26, Number 3, Fall 2009

[www.ncwss.org](http://www.ncwss.org)

- ▶ *Kansas City Here I Come Again* . 1
- ▶ *A Word From Your President* ..... 4
- ▶ *A Note From the Electronic Communications Committee* ..... 5
- ▶ *Judges Needed* ..... 6
- ▶ *2009 Weed Science Contest* ..... 6
- ▶ *2009 Weed Contest Farmer Problems* ..... 9
- ▶ *WSSA Symposium Announcement* ..... 10
- ▶ *On the Web with MSU* ..... 11
- ▶ *Project Volunteers needed* ..... 12
- ▶ *Position Announcements* ..... 12

## “Kansas City Here I Come Again!”

### 64th Annual NCWSS Meeting



SOURCE: “Kansas City Convention & Visitors Association”

#### John Wollam (Local Arrangements Chair) -

Kansas City and your local arrangements committee are looking forward to hosting the 2009 NCWSS Annual Meeting. The Hyatt Regency Crown Center (<http://crowncenter.hyatt.com/hyatt/hotels/index.jsp>) is an excellent facility with a centralized meeting area that faces an open atrium which goes from the lobby to a skylight roof overhead. Crown Center is the ultimate central location in Kansas City, and when you need a break from the rigors of the meeting there are plenty of restaurants, attractions and entertainment close at hand. The Hyatt is connected by enclosed walkways to Crown Center (<http://www.crowncenter.com/>) and Union Station (<http://www.unionstation.org/>), and is just minutes from the new Kansas City Power and Light District (<http://www.powerandlightdistrict.com/>) in downtown and The Country Club Plaza (<http://www.countryclubplaza.com/>). All these destinations will certainly provide you with the opportunity to finish your Holiday shopping. Please plan to be with us at the Hyatt Regency Crown Center, 2345 McGee Street, in Kansas City, MO for the 64<sup>th</sup> Annual NCWSS Meeting December 7 to 10. To guarantee your room at the Hyatt, please phone 816-421-1234, mail your reservation or go on line at <http://crowncenter.hyatt.com/groupbooking/mkcrkncws2009>



North Central  
Weed Science Society

*Continued on Next Page*

## “Kansas City Here We Come Again!”

before November 5. If rooms are available after the cutoff date, you will still be able to book one at our meeting rate, but why take the chance. Reserve your room early.

If you have questions, comments or suggestions concerning the meeting, please contact the Local Arrangements Committee Chairmen, John Wollam, or the appropriate subcommittee chair. Anyone wishing to arrange additional NCWSS committee meetings should contact John Wollam ([john.wollam@bayercropscience.com](mailto:john.wollam@bayercropscience.com), phone - 816-880-3820): or if you would like to plan other meetings in conjunction with the NCWSS Meeting please contact Dana Rowland, who is handling our meeting for the Hyatt Regency ([dana.rowland@hyatt.com/](mailto:dana.rowland@hyatt.com/)), phone – 816-398-4940). We look forward to seeing you in December.

### Traveling to Kansas City

Kansas City is serviced by Kansas City International Airport (code MCI). Transportation from the airport to the Hyatt is available through **SuperShuttle**. They have ticket counters across from all the baggage claim areas. After collecting your luggage, proceed to the **SuperShuttle** ticket counters and ticketing kiosks located next to each baggage claim area. Guests should purchase tickets before proceeding to the outside curbside boarding location. Look for the Blue vans. To prearrange your pickup, call 800-BLUE-VAN (800-258-3826) or e-mail at: [http://www.supershuttle.com/Kansas\\_mci\\_shuttle.aspx](http://www.supershuttle.com/Kansas_mci_shuttle.aspx).

If you are driving to the meeting:

### DIRECTIONS TO HYATT REGENCY CROWN CENTER

**I-29 South Bound or KCI Airport:** Take I-29 South to the 169 South, Kansas City exit. Follow 169 South over the river, continue straight on Broadway. Left on 20th Street. Right on McGee to hotel entrance.

**I-70 East Bound:** Take I-35 South exit to 20th Street exit. Turn left on 20th Street. Right on McGee Street to hotel entrance.

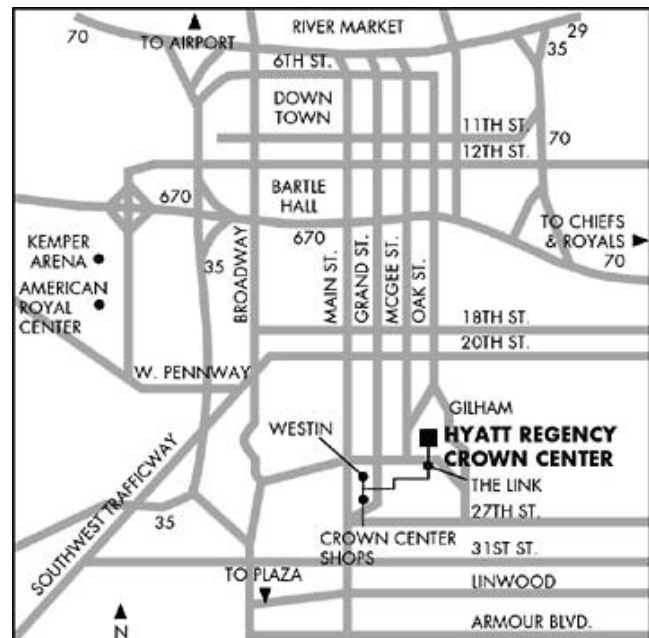
**I-70 West Bound:** Take I-35 South exit to 20th Street exit. Left on 20th Street. Right on McGee Street to hotel entrance.

**I-35 South Bound:** Take I-35 South to 20th Street exit. Left on 20th Street. Right on McGee Street to hotel entrance.

**I-35 North Bound:** Take I-35 North to Broadway exit. Turn right on Broadway. Left on 20th Street. Right on McGee Street to hotel entrance.

**71 North Bound:** Exit on 22<sup>nd</sup> Street. Turn left on 22<sup>nd</sup> until you come to Oak St. Turn right on Oak St. Take a quick left onto Gillham Road and continue to McGee. Hyatt is on the left.

**71 South Bound:** Exit on 22<sup>nd</sup> Street. Turn right on 22<sup>nd</sup> until you come to Oak St. Turn right on Oak St. Take a quick left onto Gillham Road and continue to McGee. Turn left on McGee. Hyatt is on the left.



## 2009 Program Highlights

– Chris Boerboom, Program Chair

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It sure is interesting being on this side of the fence for program planning. The pace is shifting into high gear, which must be similar to your schedules. For instance, 61 paper and poster titles were submitted on September 4<sup>th</sup>, the final day for title submission for the meeting. With the titles now in hand, they are being assigned to sections. I will mention that placement in sections is being organized with no penalty for not following submission directions (names will not be named). As with every year of the meeting that I've attend, the array of papers and posters is broad, interesting, and will fulfill a core mission of providing communication among members of our Society.

**New Format Maintained:** The 2009 meeting is returning to the Hyatt Regency where we met in 2005. Many NCWSS members will remember the excellent facility and the ample space. Because of the space available, we will be able to continue a couple major changes to the format of our meetings that Mick Holm initiated in 2008. Feedback on the changes was very positive so the Program Committee and Board wished to see these changes continue. So, the Society's awards will again be presented at a Wednesday noon at an awards banquet. The banquet will be hosted by a great MC from the great state of Minnesota (not to put any pressure on RB).

Since the graduate student awards will be presented at the banquet, all of the graduate student paper and poster judging will be conducted on Tuesday morning and afternoon. Judges will need to be on their toes to complete their task in a timely manner, but will then have more flexibility over the next 2 days to attend papers. Graduate students in the contest will also be able to relax on Wednesday and may wish to attend the statistics symposium designed especially for them (see below). The Society will also host a reception on Wednesday evening similar to last year.

**Special Sessions:** Five special symposia or sessions are being developed for this year's meeting.

- Greg Kruger has organized a **statistics symposium** for Wednesday entitled *Making Sense of the Numbers: Statistics for Weed Science*, which will prove to be interesting and valuable to graduate students. I also suspect many advisors will be interested in listening to the topics as well.

- Anita Dille and her team is continuing the tradition of having the NCWSS provide in-depth learning opportunities on **invasive weeds with a workshop** entitled *Invasive Weed Management in the Mid-Plains*. Management of hydrilla and other aquatics, purple loosestrife, *Sericea lespedeza*, and the knapweed complex will be covered. Plant managers in the local area should be encouraged to attend this Wednesday workshop.
- Don Penner is providing guidance to a Thursday symposium called ***The NCWSS Learning Store ~ technology training for successful chemical weed control***. This symposium will answer the "why" questions that you have about herbicide performance. This symposium is designed for students and professionals to increase their knowledge of new chemical and application technologies.
- Mike Owen and Lowell Sandell are teaming up to create an **Extension Section discussion**, which will explore some of the future weed management challenges that we may face. As this will be a discussion, we will certainly look forward to hearing your opinions on the topics raised by Mike and Lowell.
- Last and certainly not least, Terry Carmody will once again coordinate the ever popular ***What's New in Industry?*** session. This is a must attend session to stay abreast of the recent advances within industry.

**Other Meeting Notes:** The keynote speaker for the general session will be Chris Kucharik, an environmental scientist who studies soil-plant-atmospheric systems and climate change. Chris will review several key issues in environmental sustainability of bioenergy in his presentation *Building a Sustainable Biofuels Future*.

Everyone should also remember to submit their ppt presentations to their section chairs 7 days before the meeting. Please review the printed copy of the program when you receive it to determine your section and section chair. Also, please follow the directions for preparing your ppt, which are posted on the NCWSS website.

The Board has instituted a few modifications to the committee structure of the NCWSS. As a result, there are fewer committees. With this lean and efficient organization, you should feel greater obligation to contribute to the committee of interest to you. Each committee is more important than ever before and the Society needs your input and action. Please check the printed program for

## 2009 Program Highlights

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the committee schedule.

**Comments on Kansas City:** In the event that you have some spare time if arriving before or staying after the meeting or in the evening (certainly not during the meeting sessions), here are a few of my own comments on local entertainment in the big KC.

National World War I Museum (<http://www.theworldwar.org/>) – This museum is a short walk from the Hyatt and is quite interesting. Unfortunately, it is closed on Mondays. Reports are that the views from the Liberty Memorial Tower are impressive, but it was closed when I was there.

Arabia Steamboat Museum (<http://www.1856.com/>) – This museum tells a fascinating story both in terms of the sinking of the Arabia

and the men who recovered it. After a short cab or bus ride, plan for about 1.5 hours for the tour and viewing.

Power & Light District (<http://www.powerandlightdistrict.com/>) – If you need to eat out, this district should satisfy any of your dining desires. It's probably a reasonable hike for students, but a short cab ride might feel good in December.

College Basketball Experience (<http://www.collegebasketballexperience.com>) at the Sprint Center – This experience is adjacent to the Power & Light District. I did not experience it, but it was recommended more than once. ♦

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## A Word From Your President - Mick Holm

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Greetings from Wisconsin as we enjoy nice September weather along with the much needed heat to help bring the crops to maturity. It is a busy time as kids are back in school, plot work to finish, reports to write and still find time to cheer on the Packers.

Our weed contest and summer board meeting was held on July 22 and 23. The board meeting was in Indianapolis and the contest was hosted by ABG Ag Services near Sheridan, Indiana. Congratulations to Jay Deweese and Fritz Koppatschek, along with the rest of the ABG staff for conducting a terrific event. The students will be talking for a long time about some of the icebreakers Fritz organized the night before the contest. The joint contest with the NEWSS attracted a record number of participants and it was a good experience for everybody involved.

Before long it will once again be time for our annual meeting.

This year it will be held at the Hyatt Regency Crown Center in Kansas City on December 7 -10<sup>th</sup>. Chris Boerboom is the Program Chair and he has been very busy planning what promises to be an excellent program. I'm sure you will like some of the innovative ideas Chris is incorporating into the program. If you have ideas or suggestions for the

conference, please send them along to Chris and I'm sure he'll try to accommodate you. Please support the NCWSS by attending and participating in our annual meeting.

During the last several months, our committee of Bill Johnson, Reid Smeda and Kevin Bradley has been working diligently in conjunction with a SWSS committee to find a replacement for our Executive Secretary, Bob Schmidt. They have been involved in the solicitation, screening and interviewing of potential replacements. Their efforts have paid off, because at press time for this newsletter, they have recommended a fine candidate. The board is currently in the process of approving the recommended candidate. Stay tuned for the news!

In closing, one of the many changes made last year was that the entire NCWSS membership will be voting for officers of the society. As a result of this change, the ballot should show up in your inbox sometime in early October. I think this is a positive change and please participate in the voting process. Your input and participation is critical to the overall health of our society.

Have a great fall and I'm looking forward to seeing you in K.C.

# A Note From The Electronic Communications Committee

## Online Payment:

As in the past couple of years the ability to pay for your pre-registration through Pay Pal will continue. Pay Pal is an affiliate of Ebay. The process is a secured check out using a 128-bit encryption key to protect the information collected in the purchase process. You do NOT need a Pay Pal account to purchase registration or the items offered by the NCWSS through this service. Purchases can be made using a credit card; the NCWSS does not see or store your credit card information. On-line registration will be available when the mailing registration has been sent to the members.

## Instructions:

You can choose whether you want to register on-line or use the mail in form available for download. When selecting "On line", next to the "Mail in Registration" link on the Annual Meeting web site ([www.ncwss.org](http://www.ncwss.org)), you will be taken to a Meeting Registration Form.

## Oral Paper Presenters:

**Remember, you need to email your presentation directly to your respective section chair at least one week before the meeting. Please see the Annual meeting Web Site for a section chair list.**

Please keep in mind the following:

1. All presentations must be in Microsoft Power Point (PC compatible). Please save your presentation as a .ppt file (Power Point 1998-03), some people may not be able to open .pptx files (2007 Office). Macintosh/Apple formats will not be supported. If you must use .pptx, make sure that your section chair has the capability to display.
2. Some large corporations and universities have filters which prevent the transfer of files larger than 5 MB. So please limit your presentation file size to 5 MB or less.

On behalf of the Electronic Communications Committee, we thank you in advance for adhering to these instructions. If you have any questions or concerns, please feel free to contact me (Glenn Nice) or your section chair directly. Have a safe trip to the meeting and we will see you in Kansas City!!

## 1 Meeting Registration Form:

Fill out this form for EACH of the registrants. If you are not the person attending the meeting, please submit the information of the person who is. This page is essentially the online equivalent of the early registration form you used to fill out and mail. Press

## 2 Registration Receipt:

Once the information has been entered and the submit button has been pressed, you will be taken to a Registration Receipt. This can be printed and used for your records. An email will also be sent to you and can be used for your records. Please confirm that what was entered is correct, if not or you do not receive this web page and email please contact Bob Schmidt at the NCWSS.

Wait! You're not done, once you have reviewed the information in the Receipt please hit the "Continue on to Purchase" button at the bottom of your receipt or go back to the form to fill it out for another. **Print this receipt for your records.**

## 3 Registration Catalogue:

Once you have selected "Continue on to Purchase" you will be taken to a page with a catalogue of items that are applicable to your registration. Selecting one of the items will take you to a Pay Pal shopping cart. You must have "cookies" enabled in your web browser for the shopping cart to function properly. At this point, if you are registering more than one person, you can select more than one item;

Ex. 2 Student registrations and 1 Industry breakfast

## 4 Pay Pal and the Shopping Cart:

With each selection from the catalogue you will be taken to shopping cart. Select "continue shopping" if you have more items to add to your cart. When you have completed your selections click "Proceed to Check out."

If you have not visited Pay Pal before, it will take you to a page that will offer you an account. If you want a Pay Pal account proceed. However, **you do NOT need an account to purchase registration.** There is a option to select to skip the account business.

If you have been to Pay Pal before, it will take you directly to a credit card submission form.

# Judges Needed

Judges are needed for the Undergraduate Poster Contest and the Graduate Poster and Paper Contests at the North Central Weed Science Society meeting. Anyone interested should contact, John Hinz (Undergraduate Poster) [john.hinz@bayercropscience.com](mailto:john.hinz@bayercropscience.com), Jon Lindquist (Graduate Paper) [jlindquist1@unl.edu](mailto:jlindquist1@unl.edu), or Brady Kappler (Graduate Poster) [brady.kappler@basf.com](mailto:brady.kappler@basf.com).

## 2009 North Central and North East Weed Science Collegiate Contest



## Graduate Student Team



***First Place: Michigan State University. Kelly Barnett, Molly Buckham, Calvin Glaspie, and Kate Withers.***



***Second Place: Ohio State University. Dania Rivera, Kyke Daniel, Upender Somireddy, and Jason Parrish.***



***Third Place: University of Nebraska. Venkata Mannam, Jared Schmidt, Nabaraj Banjara, and Sam Wortman.***

## Undergraduate Student Team



***First Place: University of Illinois. Jared Roskamp, Caitlin Allen, and Sean Breen***



***Second Place: Michigan State University. Jake Gebhardt, Alyson Wielfaert, Mark Hasenick,, and Dan Tratt.***



***Third Place: University of Missouri. Ryan Mueller, Tim Noellshch, Brett Craigmyle, and Miranda Glasgow.***

If you want copies of these images please go to the NCWSS web page to down load.



***Micheal Bell - 1st Place Overall and Written Calibration - Illinois State University***



***Calvin Glaspie - 2nd Place Overall - Michigan State University***



***Jason Parrish - 3rd Place Overall, Weed ID and Unknown Herbicide - Ohio State University***

## Graduate Level



***Jared Roskamp - 1st Place Overall and Unknown Herbicide - University of Illinois***



***Nathan Miller - 2nd Place Overall, Weed ID and Farmer Problem #6 - The Ohio State***



***Sean Breen - Undergraduate 3rd Place Overall and Written Calibration - University of Illinois***

## Undergraduate Level



## Weed Science Contest Individual Awards



***Dania Rivera - Graduate  
Farmer Problem #2  
(Paraquat Drift)  
The Ohio State University***



***Kate Withers - Graduate  
Farmer Problem #4  
(Uneven Planting)  
Michigan State University***



***Elysia Berry - Graduate  
Farmer Problem #5  
(Mesotrione Carryover)  
Michigan State University***



***Brandon Hulse - Graduate  
Sprayer Calibration  
Kansas State University***

**Image not  
available**

***Jared Schmidt - Graduate  
Farmer Problem #3  
(Select Injury)  
University of Nebraska***



***Michelle Cole -  
Undergraduate Sprayer  
Calibration  
Michigan State University***



***Caitlin Allen - Under-  
graduate Farmer Problem  
#1 (Contaminated  
Planter)  
University of Illinois***

## 2009 Weed Contest Farmer Problems

### Dirty Planter

Situation: The planter was not cleaned out properly when conventional corn was switched to Liberty Link corn. The farmer is a first time user of Liberty Link corn and is not sure of what is happening. His primary concern is that his corn is dying.

### Diseased Corn

Situation: Farmer thinks he is getting Grey Leaf Spot, Frogeye or Northern Corn Leaf Blight in his RR corn. The actual problem is Gramaxone drift from a neighboring corn field.

## 2009 Weed Contest Farmer Problems

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### Yellow Corn

Situation: The corn is very yellow and the farmer is blaming the glyphosate (Roundup app). He sprayed 22 Oz/A about a week ago. Several things are going on, he sprayed late and most likely is losing yield. Also, he failed to put down some type of pre app. Urea was used as the nitrogen source and it was not incorporated. No rain was received and almost all of the nitrogen volatilized. The weed death is also contributing to a imbalanced carbon/nitrogen ratio.

### White Stunted Soybeans

Situation: Farmer thinks he has some Manganese or Iron Chlorosis problem on his field. The soybeans are stunted and slightly white. He thinks that the ground has high pH and other fields in the area have been influenced by this. A soil test had not been done for 5 or 6 years. The actual problem is Lexar carryover due to the 3.5 qt/A rate being used in 2008.

### Poor Corn Stand

Situation: The farmer is not happy with the corn stand. The corn was no-tilled into wet soils and the variable planting depths were used. The field was also sprayed with Roundup 22oz/a, Atrazine (1 lb/A) and Prowl (3 pt/A) burndown at planting. The Prowl may be contributing to the poor root growth but the uneven planting and compaction is causing most of the problems. This is primarily a planter issue not a herbicide issue.

### White/Stunted Replant Corn

Situation: The farmer killed off his RR corn with Select (6oz/A) and the new corn is coming up stunted and white. What is causing the problem? The center rows had a double rate simulating boom overlap. The corn was planted on the same day as the Select application.

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## WSSA Symposium Announcement

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This will be the topic of a symposium at the upcoming 50th Annual Meeting of the Weed Science Society of America in Denver, Colorado, February 7-11, 2010.

Producers across the nation and worldwide are

dealing with issues associated with weed control, including site specific applications, integrated weed management and application timing. Come to the symposium and hear about how the potential for improving weed control using automation and machine guided technologies can help address these pertinent, production based weed control problems. The symposium will feature biosystem engineers, industry representatives and crop producers, who have experience with the latest weed control technologies for organic and conventional cropping systems. The panel of experts will share their insights on current research and the prospects for future applications of machine guided technologies for controlling weeds. The symposium will also feature a question and answer session between the panel and the audience. Be sure to mark this symposium as you plan your schedule for the meetings in Denver. It will be one of the highlights of your week!

### Advancements in Automation and Machine Guided Technologies



## On the Web with MSU: Five sites to know

Erin Taylor

### MSU Weed Science

#### **Field Crops - [MSUweeds.com](http://MSUweeds.com)**

As the home of the MSU weed science group working in field cropping systems, this site is packed full of information related to weed biology, ecology, and management. For growers and researchers alike, the site offers information on upcoming events, newsletters regarding current topics, research reports, abstracts and posters from meetings, information on MSU Extension publications, and more. Also, to keep things current a blog has been added for a less formal look into what is going on with the field crops group.

#### **Turfgrass - [MSUturfweeds.net](http://MSUturfweeds.net)**

The initial vision for this site was to help MSU turfgrass students learn the key identification characteristics of common and not-so-common turfgrass weeds found in Michigan and the Midwest. Soon it became apparent that many other users (e.g. professional turf managers) were looking to the site for information, so a new version of the site was released that incorporates information on preferred habitats, alternative common names, look-a-likes, management practices, where appropriate, and chemical control options.

#### **Vegetables and Fruit- [veginfo.msu.edu](http://veginfo.msu.edu)**

This site is designed to provide information on pest management in vegetable crops. The site highlights the MSU Extension annual

publications, “Weed Control Guide for Vegetable Crops” and “Weed Control Cross-Reference” guide where you can search for herbicide information based on specific weeds, crops, trade names, etc. The site includes new labels and Section 18 regulations for Michigan vegetable crops.

#### **Midwest Cover Crops Council -**

##### **[MCCC.msu.edu](http://MCCC.msu.edu)**

The Midwest Cover Crops Council is a diverse group from academia, production agriculture, non-governmental organizations, commodity interests, private sector, and representatives from federal and state agencies collaborating to address soil, water, air, and agricultural quality concerns in the Great Lakes and Mississippi river basins (including Indiana, Michigan, Ohio, Ontario, Illinois, Wisconsin, Minnesota, Iowa, and North Dakota). The MCCC site serves as a compilation point for all cover crop related research and extension materials from the region. In addition to providing information regarding cover crops, the site also presents upcoming events, innovator profiles, and related links and offers the opportunity to join the MCCC listserv.

#### **New Agriculture Network - [New-Ag.msu.edu](http://New-Ag.msu.edu)**

The New Agriculture Network is the collaborative effort of Michigan State University, Purdue University, and the University of Illinois. The network consists of local experts (i.e. extension specialists, growers, researchers) coming together to post timely information and advice regarding low-input and/or organic production for field crop, vegetable, and fruit growers. Articles are posted every week to two weeks during the growing season and on a less frequent basis during the off season. Joining the listserv notifies members each time new articles become available on the site.

**If you are a member of NCWSS and wish to  
announce a position please submit your  
announcement to  
Harlene Hatterman-Valenti at  
[h.hatterman.valenti@ndsu.edu](mailto:h.hatterman.valenti@ndsu.edu)**

## **Project Volunteers Needed**

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The CropLife Foundation, in conjunction with CNFA's Farmer-to-Farmer Program is soliciting applications for three US weed scientists to travel to Tanzania, Kenya, and Malawi in 2009-2010 as part of the CNFA and CropLife Foundation's African Weed Control Demonstration Project. The participants will provide technical oversight and assistance in the setting up and supervision of weed control demonstration plots on farmer fields. Approximately 25 demo plots will be established in each country. The crops will be maize, groundnuts and beans. Volunteers can spend up to three weeks overseas during the course of the project. CNFA arranges, and pays, for all travel, accommodation, visas, and other logistical issues for volunteers.

This project specifically looks to improve the lives of women and children in these countries by using improved weed control methods so they may eliminate the debilitating, backbreaking labor of handweeding and to increase crop production through more effective weed control.

For information on the Farmer to Farmer Program, please visit <http://www.cnfa.org/farmertofarmer>

For information on the first year of the African weed control demonstrations, please visit: [http://www.croplifefoundation.org/cpri\\_articles.htm#africa](http://www.croplifefoundation.org/cpri_articles.htm#africa)

If interested in becoming a volunteer for the project, please contact Leonard Gianessi at [lgianessi@croplifefoundation.org](mailto:lgianessi@croplifefoundation.org)

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## **Position Announcements**

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### **ASSISTANT PROFESSOR IN CROP SCIENCE/PHYSIOLOGY DEPARTMENT OF AGRONOMY Iowa State University**

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**POSITION:** The Department of Agronomy invites applications for a faculty position in crop production. This position is characterized as 60-80% teaching and 40-20 % research. This individual will teach the science of modern crop production by applying a strong background in crop production and physiology to teach students the physiological basis for and the ecological ramifications of various crop production systems. The person in this position will also advise undergraduate students and may supervise undergraduate research.

**RESPONSIBILITIES:** The faculty member will also conduct research on crop production with the goal of developing advanced production systems. Engagement in interdisciplinary research as appropriate to facilitate agronomic advances in crop production is expected. Therefore, it will be necessary to cooperate with scientists in the Department of Agronomy and work effectively on university-wide, regional, and national levels to address issues faced by producers and consumers of crop products. Supervision of graduate students and serving on graduate student committees is expected. The faculty member will secure extramural funding to support his or her research program.

This faculty position affords significant opportunity for the development of strong interdisciplinary teams with departmental faculty, allied departments on the ISU campus, research organizations such as the USDA-ARS, and other state and national partners. The Agronomy Department has a rich and strong commitment to providing outstanding undergraduate teaching programs. Iowa State University is one of the country's leading

## ***Position Announcements***

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agricultural universities and Iowa is in one of the top agricultural states in the US. Located in the city of Ames, ISU is the heartland of US culture and agriculture. Ames has abundant recreational and entertainment opportunities and an outstanding school system.

**REQUIRED QUALIFICATIONS:** Ph.D. in agronomy or closely related agricultural discipline, with education and research experience in crop physiology, crop production, or plant physiology; ability to teach and conduct research; knowledge and experience in modern instrumentation and methods used in crop/plant physiology or production research; and excellent written and oral communication skills.

**PREFERRED QUALIFICATIONS:** Evidence of effective teaching, research, or outreach; experience in the application of geographic information systems to crop production; [demonstrated success in grant writing](#); and experience working collaboratively with research, teaching, and extension staff, as well as industry and other agricultural organizations and agencies.

**SALARY & BENEFITS:** Commensurate with qualifications

**DATE AVAILABLE:** The application deadline is November 16, 2009 or until the position is filled.

**APPLICATION PROCEDURES:** Please see Quick Link: [www.iastatejobs.com/applicants/Central?quickFind=77686](http://www.iastatejobs.com/applicants/Central?quickFind=77686)

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### **RESEARCH ASSISTANT I DEPARTMENT OF HORTICULTURE MICHIGAN STATE UNIVERSITY, POSTING #3482**

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**POSITION:** Full-time for one year from time of hire with likely opportunity for extension depending on available funding. Employee group: APA 11.

**RESPONSIBILITIES:** Will work independently and with growers and graduate students to assist principal investigator in designing, planning, and conducting field and greenhouse research located in various sites around Michigan; will conduct plant and soil analyses in the laboratories and maintain laboratory equipment; conducts statistical analyses; prepares reports and presentations on research projects and assists in manuscript preparation for publication; trains and supervises undergraduate employees to assist in research; responsible for repair and maintenance of research equipment. Work hours 8 a.m. to 5 p.m. and variable with some longer days.

**REQUIRED QUALIFICATIONS:** A master's degree in agriculture or related field; experience in vegetable production; ability to perform all phases of field vegetable production; experience in planning, setup including irrigation, precision planting, maintenance, harvesting, and data collection of research trials in the field; experience in operation and maintenance of field equipment, including tractors, backpack and boom sprayers, vegetable bedders/tillers, and equipment trailers; experience with laboratory equipment operation; experience with Microsoft Office and other software; experience with statistical software.

**SALARY & BENEFITS:** Minimum \$37,836

**DATE AVAILABLE:** The application deadline is November 16, 2009 or until the position is filled.

**APPLICATION PROCEDURES:** To apply, go to Michigan State University Applicant Page and follow instructions for new users. Refer to posting 3482. For questions, contact Dr. Mathieu Ngouajio at (517) 355-5191 x 1410 or [ngouajio@msu.edu](mailto:ngouajio@msu.edu)

MSU is an affirmative action, equal opportunity employer.