

NCWSS • News

North Central Weed Science Society

Vol 23, Number 2, Summer 2007

www.ncwss.org

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New for this year

Presentations will be sent to the section chair 7 to 10 days before the meeting. For more information see the Call for Papers, page 3.



Please send your articles for the Fall NCWSS Newsletter to Harlene Hatterman-Valenti by Sept. 15th
Electronic Submission is preferred, send articles to h.hatterman.valenti@ndsu.edu

Presidents Comments - Adrian Moses

I hope you all have had a good spring. It has been windy and the initially high rainfall has field work off to a slow start in some areas. However, it is *the North Central* part of *North America*, what do I expect?

I guess I expect to see and visit many of you in Iowa and Missouri. In Iowa, at the 2007 NCWSS Weed Science Contest July 18-19th hosted by Bennett Agricultural Research in Richland, Iowa and in St. Louis, MO. December 11-13th. Thanks to the sponsors, the Industry and Resident Education committees, and especially the volunteers for helping to bring about the contest this year. What a great time and we all appreciate your support, especially the students.



Adrian Moses,
2006 NCWSS President

Bill Johnson, 2007 program chair has successfully maneuvered through the initial planning with many of you for the meeting in St. Louis and it is time to start thinking about your presentation for the September submission deadline to the NCWSS program. Bill has all the **Big News** about participating at the NCWSS meeting in this issue. One tidbit is that your oral presentation will be requested 7-10 days before the NCWSS meeting. This will allow better logistics of the presentation gathering and allow your section chair to bring the preloaded presentations to the meeting. He has incorporated many of your ideas from your surveys at the last meeting in Milwaukee into our 2007 meeting.

Our Local arrangements chair, Greg Elmore, has all the details and **Big**

News of what St. Louis has to offer. The gathering point for our 2007 meeting will be located in downtown St. Louis, which is part of historic Union Station, a retail, dining and entertainment complex that is only footsteps from our meeting rooms. Other interesting sites include the Gateway Arch, Grant's Farm (summer home of the Busch family and home to hundreds of animals), Anheuser-Busch Brewery, St. Louis Zoo and the Art Museum at Forest Park, Science Center, the Botanical Gardens and the St. Louis Rams.

I look forward to seeing you soon and to see our society working toward a common yet ever changing task of being the central gathering point for weed control communications and research. See www.ncwss.org for all the details. Hope you have a safe and enjoyable summer.



Past President Steven

Past President's Comments – Steve Miller

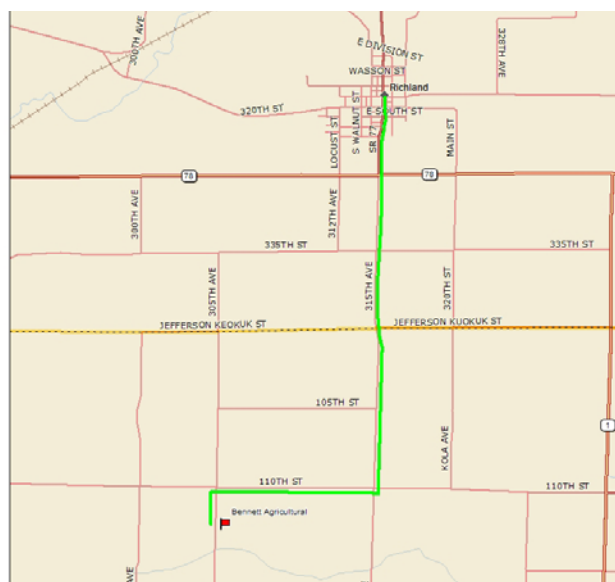
Our summer executive board meeting and weed science collegiate contest are on your calendar and it will not be long before we will be planning our travel to the St. Louis meeting. Adrian Moses, Bill Johnson, and others have initiated or have participated in a number of conversations since the December meeting in Milwaukee. I anticipate a very high quality program and as in the past will solicit participation from outside of the NCWSS for our meeting. We will also promote our meeting so that we can attract new membership. Make sure the commitments you made to serve the NCWSS are being fulfilled. Take some time to insure that committee objectives are being met and there are plans to follow through. Also start thinking about possible oral and/or poster presentations.

2007 Collegiate Weed Science Contest - Bennett Agricultural Research Corp.

The 2007 Weed Science contest will be hosted by Bennett Agricultural Research Corp., Richland, Iowa. The contest dates are **July 18 and 19**. Registration will take place at the contest site on July 18, beginning at 4:30 pm. A Dinner will be held at the same site beginning at 5:30 pm. Hotel accommodations can be made at the Best Western (641-472-2200) and Super 8 in Fairfield (641-469-2000), be sure to mention "weed contest" to receive rate. Reservations must be made by **June 18** to guarantee a reduced room availability.



Directions to BARC from Richland, Iowa are: BARC is located approximately 2 miles South and 1 mile West of Richland, IA. From the main intersection at Richland there is the Bee Hive Beauty Salon on the Northwest corner and Hinshaw trailer sales on the Northeast corner of the intersection, take 315th Avenue (rock road) south about 2 miles to 110th Street. Be aware that 315th Ave. will change to Jasmine Avenue as you cross the county line approximately 1 mile south of Richland. At the intersection of 110th and Jasmine turn right or toward the west and go 1 mile to Ivy Avenue. Turn left or toward the south of Ivy Ave. BARC will be the first place on the left. Address is: 1109 Ivy Avenue. A good landmark to locate the research farm is to come to the 3 upright silos after you turn on Ivy Avenue.



Directions to BARC from Fairfield, Iowa are: Take Rt. 1 North 12 miles to the Rt. 1 and Rt. 78 intersections, then back West 2 miles. Then it will be the same directions on 315th Avenue from Richland.

Volunteers Still Needed

Volunteers are still needed. For volunteer opportunities please see the contest page on www.ncwss.org

**Call for Papers and Posters-September 5th
62nd Annual Meeting of the NCWSS
Hyatt Regency, St Louis, MO
December 10-13, 2007**

Message from the Program Chair –Bill Johnson

This issue of the NCWSS Newsletter serves as the Call for Papers and Posters for the 2007 Annual Meeting of the North Central Weed Science Society. This is the only notice you will receive, so mark your calendar and submit the titles of your presentations by Wednesday, **September 5th**. Submissions received after **September 5th** may be placed in alternate sections, switched to the poster session, or rejected, depending on the availability of space in the sections. To make title submission more efficient and convenient, paper and poster titles must be submitted via the process described on the NCWSS website at this address: <http://www.ncwss.org>. We will have the title submission website open and available by July 1, 2007.

The program will begin Tuesday morning, December 11th, 2007, and conclude on Thursday afternoon, December 13th, 2007. The Tuesday morning general session will feature keynote speakers from the U.S. Department of Energy and CAST on biofuels, a Washington Report from Lee Van Wychen, and the Presidential Address. Symposia planned for the meeting will include the science and art of wildlife habitat restoration, developing effective communication skills for students and professionals, and new developments from industry. In addition, the NCWSS will host a gene flow meeting which is being organized by Michael Horak. Symposia Chairs will be responsible for submitting invited speaker presentations. The Program Chair will submit titles of general session speakers. The volunteer paper and poster sections are listed below and directions are included for submission of papers and posters into these sections.

The 2007 program will again feature graduate student paper and poster contests and an undergraduate poster contest. Guidelines for the contests are found later in this article and at our website in the NCWSS Manual of Operating Procedures. We again look forward to top-quality presentations by the students.

NEW FOR THE 2007 MEETING! All presentations will be submitted to the appropriate section chair about 7 to 10 days before the meeting. Previously, presentations were loaded at the meeting. So, paper presenters will need to be prepared to

complete their presentation a bit earlier than last year and have it sent to the appropriate program chair. Section chairs will bring the preloaded presentations to the meeting.

I encourage all members to consider giving one or more presentations at our annual meeting. In addition to research, thought provoking or critical assessments of our discipline are also welcomed. And I invite your suggestions on ways to make the meeting even more valuable to you and others. I look forward to an exciting conference in December.

Bill Johnson, Program Chair
wgj@purdue.edu, 765 494-4656

Preparing to Submit Titles

Please follow these instructions when preparing your title(s).

- a) Decide whether the presentation is a poster, paper or invited symposia paper.
- b) Select your first and alternate choices for the section in which you want to make your presentation. Any questions pertaining to the appropriateness of your presentation in these sections can be answered by contacting the Program Chair or the respective Section Chair.
- c) Type the title, authors, affiliation (institution, agency, or company) and location (city and state) exactly the way they are to be printed in the program. Include the full first name and middle initial of the authors, rather than just initials. Do not include departments or division, zip codes, or the name of the state if it is a part of the institution's name. Designate with an asterisk (*) the author who will present the paper or poster. Give the common names of weeds, herbicides, and crops. Follow these examples:

Control of Velvetleaf in Soybean with Clomazone.
Jeffrey L. Gunsolus* and Beverly R. Durgan, Univ. of Minnesota, St. Paul. Technical Evaluation of a

New Potassium Salt of Glyphosate Formulation.
Ericka J. Ehler*, Jeffrey A. Koscelny, David C. Heering, Dawn Wyse-Pester and Paul G. Ratliff, Monsanto Co., St. Louis, MO.

How to Submit Titles

All submissions must be via the NCWSS website at: <http://www.ncwss.org>. We will have the website open for submissions by July 1, 2007. Follow the instructions and fill out the forms completely. Submit each paper and poster separately, but submit individual papers and posters only once. The Program Chair will acknowledge receipt via an e-mail response. Please contact the Program Chair by phone or e-mail if you do not receive acknowledgement by September 14th, 2007.

Sections for Papers and Posters and their Chair

Agronomic Crops I (Cereals, Sugar Beets, Dry Beans)

Mike Edwards - 303-280-3830 or michael.t.edwards@usa.dupont.com

Agronomic Crops II (Corn , Sorghum)

Tony Dobbels - 614-403-3237 or dobbels.1@osu.edu

Agronomic Crops III (Soybeans , Legumes, Forage and Range)

Jeff Bunting - 309-557-6315 or jbunting@growmark.com

Equipment and Application Methods

Teague Lottman - 800-642-8572 or tlottman@coopmutual.com

Extension

Kevin Bradley - 573-882-4039 or bradleyke@missouri.edu

Herbicide Physiology

Dean Volenberg – 920-746-2260 or dean.volenberg@ces.uwex.edu

Invasive Weeds

Marc Renz - (608)263-7437 or mrenz@wisc.edu

Forestry ,Industrial, Turf and Aquatics

Mike Marshall - 517-355-5191 ext 784 or mmarshall@msu.edu

Horticulture, Turf, and Ornamentals

Darren Robinson - 519-674-1604 or drobinson@ridgetownc.uoguelph.ca

Weed Biology, Ecology and Management

Ed Luschei Chair 608-263-7436 or ecluschei@wisc.edu

Poster Session – Ron Krausz 618-566-4761 or rkrausz@siu.edu

Program Chair – Bill Johnson, 765-494-4656 or wgi@purdue.edu

Paper Presentations and Presentation Format

All papers will be presented with Power Point files on an LCD projector. Traditional slide projectors **will not** be available. Electronic presentations will be limited to Power Point programs and will need to be sent to the section chairs approximately **7 to 10 days prior to the meeting**. Presentations are approximately 12 minutes long followed by one to two minutes for questions or comments. Contact the **Program Chair** if more time is needed. Abstracts of the paper and poster presentations will be published in the NCWSS Proceedings. Abstracts will be submitted electronically via e-mail prior to the meeting. A **Call for Abstracts and Instructions for Submitting the Abstracts** will be sent to the corresponding authors by the Proceedings Editor after titles are submitted.

Poster Presentations

All posters will be set up on Monday and available for viewing on both Tuesday and Wednesday. Authors will be present at their posters from 8:00 a.m. to 9:45 a.m. on either Tuesday or Wednesday. All posters should be removed by 4:00 p.m. on Wednesday. One poster mounting board, approximately 48 by 48 inches, supported on an easel will be provided by the NCWSS. Posters will be arranged according to subject, so please indicate your section preference on the **Title Submission Form** via the NCWSS website. Additional details will be mailed to each poster session participant following title submission.

Call for Sustaining Member and Sustaining Member Displays

Contact the chair of the Industry Special Interest, John Hinz (515-733-9250 or john.hinz@bayercropscience.com) for information on how to become a Sustaining Member of the NCWSS. Sustaining member displays can be set up Monday afternoon and should be removed by 4:00 p.m. Wednesday.

Graduate Student Paper Contest

Any graduate student who is registered at the NCWSS meeting and has conducted research while they were student in the North Central Region is eligible to compete, with the exception of those having won first place in a previous contest. Awards will be presented to the first and second place winners in the graduate student paper contest at the banquet on Wednesday evening. Graduate students may enter the paper contest by checking the appropriate box when submitting the paper's title.

Abstracts must be submitted electronically via e-mail prior to the meeting. A **Call for Abstracts and Instructions for Submitting Abstracts** will be sent to the corresponding authors by the Proceedings Editor after titles are submitted. The criteria for evaluation of presentations in the student contest can be found at the NCWSS website in the *Manual of Operating Procedures* (www.ncwss.org). Awards consist of certificates of achievement and a minimum monetary award of \$100 for first place and \$50 for second place, awarded to winners in each division. The chair of the graduate student paper contest is Jess Spotanski (402-366-9230 or jess_potanski@mainstaycomm.net).

Graduate Student Poster Contest

The graduate student poster contest is similar to the graduate student paper contest. Graduate students may enter the poster contest by checking the appropriate box when submitting the poster's title. Abstracts must be submitted electronically via e-mail prior to the meeting. A Call for Abstracts and Instructions for Submitting Abstracts will be sent to the corresponding authors by the Proceedings Editor after titles are submitted. The criteria for evaluation of presentations can be found at the NCWSS website in the *Manual of Operating Procedures* (www.ncwss.org). Awards consist of certificates of achievement and a minimum monetary award of \$100 for first place and \$50 for second place to winners in each division. The chair of the graduate

student poster contest is John Hinz (515-733-9250 or john.hinz@bayercropscience.com).

Undergraduate Student Poster Contest

The NCWSS will sponsor an undergraduate poster contest at the annual meeting in St. Louis. The purpose of this contest is to encourage undergraduate students who have conducted research in weed science to present their results to the society in poster format, and to gain experience and interact with other scientists and students. The contest will be held in conjunction with the Graduate Student Poster Contest, with the same rules and evaluation guidelines. The criteria for evaluation of presentations can be found at the NCWSS website in the *Manual of Operating Procedures*. Students should have a faculty sponsor who is a member of the NCWSS to provide guidance in poster preparation. Undergraduate students may enter the poster contest by checking the appropriate box when submitting the poster's title. Abstracts must be submitted electronically via e-mail prior to the meeting. A Call for Abstracts and Instructions for Submitting Abstracts will be sent to the corresponding authors by the Proceedings Editor after titles are submitted. Awards consist of certificates of achievement and a minimum monetary award of \$100 for first place and \$50 for second place to winners in each division. The chair of the graduate student poster contest is (Dave Nicolai 320-234-0435 nico0071@umn.edu).

What's New In the Industry

This is an initial request to interested participants for the upcoming 'What's New in the Industry' session at the NCWSS in St. Louis. This has been a popular session at previous conferences. If your organization would like a time slot on the program, please let me know and select a presenter to represent your organization. Please keep in mind our goal is to let industry members of the NCWSS update the society on product labels, organizational changes, acquisitions, etc. To that end, each presenter will be given 5 to 10 minutes, depending on the number of participants. We want the information to be useful and informative, yet succinct so the session can be kept moving. This session should not be used for extensive data presentation or extensive promotion of products, but rather as an

opportunity to provide sound technically based information to assist in the proper use and stewardship of your products. Thank you for your interest in this session at the NCWSS meeting. Please forward this information to your colleagues and let me know if your organization would like a time slot in the session.

Sincerely,

Mick Holm
DuPont Crop Protection
Office; 608-231-9961
Mick.F.Holm@usa.dupont.com

NCWSS

Call for Nominations for 2007 Distinguished Achievement Awards

Each year we recognize the contributions of outstanding members through the Distinguished Achievement Awards. However, deserving candidates cannot receive the award unless they are nominated. Please take time to consider who you see as deserving individuals for one of our Distinguished Achievement Awards and either submit their nomination or contact someone else to encourage that he or she prepare the nomination. The process is simple and the rewards to the honorees are well worth the effort. The Society can present up to five Distinguished Achievement Awards each year from among the following categories:

Research Industry Education Service Professional Staff Young Scientist

The nomination guidelines are the same for all categories of Achievement Awards and consist of four parts:

- 1) cover page
- 2) evaluation statement
- 3) brief curriculum vitae or similar document that gives information on:
 - degrees received
 - memberships in honorary and professional societies
 - honors and awards received
 - professional positions held
 - professional contributions during the last 10 years
- 4) three letters of support: one from the nominator and two from others

Details of the nomination process and eligibility of nominees can be found on page 21 of the NCWSS Manual of Operating Procedures available on our website: www.ncwss.org. Nominators need to initiate the process early to procure letters of support prior to the application deadline.

Submissions of all nomination materials are due September 1, 2007. Send completed nomination packages and any questions about our Distinguished Achievement Awards to:

Steve Miller,
Agricultural Experiment Station, University of Wyoming
1000 E University Ave, Dept 3354
Laramie WY 82071-2000

North Central Weed Science Society Meeting Locations

2007 St. Louis
December 10-13

2008 Indianapolis
December 8-11



Photo source: St. Louise, <http://www.st-louis.city-tourist-information.com/>; Indianapolis, www.napm-indianapolis.org/

WeedSoft Available Online

WeedSOFT® is a decision support system (DSS) designed to assist growers, consultants, and extension agents in making both proactive and reactive weed management decisions. It allows the user to consider biological, economic, and environmental aspects of weed management in crops and pastures common to the North Central Region. From 1996-2006, annual updates were made available for subscribers to access new functionalities and the latest information on herbicide efficacy and price.

In September 2006, the decision was made to transition components of WeedSOFT® to an online platform where these tools would be available free of charge. Two tools are currently available online – the WeedSOFT® Yield Loss Calculator (Figure 1) and the WeedSOFT® Tank-mix Calculator (Figure 2). Both calculators are available at <http://weedsoft.unl.edu>, and may be found under the “Tools” menu.

The Yield Loss Calculator asks the user to input crop, weed, and economic data, and the calculator then estimates yield loss and the economic value of lost grain. It may be used to effectively teach principles of weed competition in both extension and classroom environments. The Yield Loss Calculator is particularly useful for demonstrating the importance of timely weed applications.

The Tank Mix Calculator allows the user to input field, sprayer, and herbicide data, and the tool then calculates the amount of herbicide needed for a field and the amounts to add per tank load. Users can print a load ticket that doubles as an effective record keeping tool. The Tank Mix Calculator has been well-received by custom applicators and producers who do not already have a tank mix software program.

Additional tools will be available in the near future. The WeedSOFT project is collaboration between weed scientists from the University of Illinois, Kansas State University, Michigan State University, the University of Minnesota, the University of Missouri, University of Nebraska-Lincoln, The Ohio State University, Pennsylvania State University, Purdue University, and the University of Wisconsin. The project is currently coordinated through the University of Nebraska-Lincoln.

Inquiries and ideas may be submitted to Mark Bernards, Assistant Professor and Extension Weed Specialist, at 402-472-1534, or at weedsoft2@unl.edu.

The screenshot shows the 'WeedSOFT 2006 Yield Loss Calculator for Nebraska' interface. It features several input fields: 'Crop' (dropdown), 'Crop Stage' (dropdown), 'Select Row Spacing' (dropdown), 'Expected Weed Free Yield (Bu/Acre):' (text input), and 'Expected Selling Price (\$/Bu):' (text input). Below these are 'Weed:' (dropdown), 'Enter Weed Density:' (text input with '(per 100 sq. ft.)' label), and 'Weed Stage:' (dropdown). An 'ADD Weed' button is positioned below the density input. A table titled 'Weeds Selected for Calculation' has columns for 'Selected Weed', 'Density', and 'Growth Stage'. At the bottom are 'Calculate Yield Loss' and 'Reset Form' buttons. The footer reads '©2006 - WeedSOFT® - University of Nebraska-Lincoln'.

Figure 1. WeedSoft Yield Loss Calculator data entry page.

The screenshot shows the 'WeedSOFT Tank Mix Calculator' interface. It includes input fields for 'Enter Field Size (Acres):' and 'Enter Tank Size (gallons):'. Under 'Carrier Volume (gal./acre):', there are radio buttons for 5 gal., 10 gal., 15 gal., 20 gal., and a 'Custom' option with a text input. To the right, there is a 'Select a Herbicide' dropdown, 'EPA Reg. NO.' (text input), and 'Select Bulk Unit: GAL' dropdown. An 'ADD Herbicide' button is below. A table with columns 'Selected Herbicide', 'Amount', 'App Unit', and 'Bulk Unit' is shown. At the bottom, there is a question: 'If you require 1 Full Load and 1 Partial Load, would you like to split these into 2 equal Loads?' with radio buttons for 'NO' and 'YES'. 'Calculate' and 'Reset Form' buttons are at the bottom right. The footer reads '©2006 - WeedSOFT® - University of Nebraska-Lincoln (http://weedsoft.unl.edu)'.

Figure 2. WeedSoft Tank Mix Calculator data entry page.

People and Places

New Faculty:

Mark Renz joined the Department of Agronomy at University of Wisconsin-Madison as an Assistant Professor and Extension Weed Scientist to conduct research and extension on weeds of perennial systems and on the biology, ecology and management of perennial and invasive weeds. His B.S. and Ph.D. are from the University of California-Davis. Dr. Renz's dissertation research was on the biology, ecology and management of perennial pepperweed. Mark was an Extension weed scientist at New Mexico State University before joining the University of Wisconsin.

Graduations:

Christopher L. Schuster -
Kansas State University

Ph.D. in Agronomy
Advisor: J. Anita Dille

Dissertation: "Weed Science Education and Research: The Agronomy Learning Farm and Mesotrione and Sulfonylurea Herbicide Interactions."

Current Position: Research Scientist, Monsanto, Constantine, MI

Mary Gumz -
Purdue University

Ph.D in Horticulture
Advisor: Steven Weller

Dissertation: "Development of Remote Sensing-based Site Specific Weed Management for Midwest Mint Production."

Current Position: Technical Representative Golden Harvest

Seed

Position Announcement

Two Graduate Research / Extension Assistant positions available at Kansas State University in the areas of weed science, cover crops, and cropping systems. Full descriptions can be accessed at <http://www.agronomy.k-state.edu/> under Employment. Contact Dr. J. Anita Dille, dieleman@ksu.edu, for more information.

Publications:

Here's an interesting weed science related article that may have evaded your detection.

Zelay, I. A., M. D. K. Owen, and M. J. VanGessel. 2007. Transfer of glyphosate resistance: evidence of hybridization in *Conyza* (Asteraceae). *Am. J. Bot.* 94:660-673.



Invitation



Surfaces, Colloids and Nanoscience Short Course August 20-24, 2007 University of Washington

You will benefit by attending this course if you are an Industrial researcher, engineer or technician dealing with surfactants, thin films, coatings, natural or synthetic fibers, adhesives, lubricants, wetting agents, foams, pigments, powders, drug delivery systems and other materials for which surface properties an important role.

The course consists of lectures in the mornings, which develop the fundamentals and trace their consequences into industrial practice, and laboratory demonstrations in the afternoons, which illustrate modern methods of investigation and characterization of surface and colloidal systems.

Date and Location:

August 20-24, 2007
University of Washington
Seattle, WA

To download a brochure with additional information, click [here](#).

Fee: \$1575 (for registration after Aug. 13, 2007; \$1675 thereafter)

This course is directed by Prof. John Berg, Rehnberg Professor of Chemical Engineering, who also leads the Interfacial and Colloid Science Group at the University of Washington, Department of Chemical Engineering.

Malvern Instruments, Inc.
10 Southville Road
Southborough, MA 01772
508-480-0200
www.malvern.com

Position Announcements

Kansas State University Graduate Research / Teaching Assistant

POSITION DESCRIPTION: Agronomy Learning Farm (crops, weeds, soils), 0.5 time. The GRA/GTA will coordinate field activities and planning meetings with Teaching faculty, staff, students and the Farm Manager. The candidate will be responsible for scheduling class trips, compiling field data (GPS, GIS, database management), and developing a web site to highlight Learning Farm activities. The GRA/GTA will assist in recruiting and supervising undergraduate research assistants working at the Learning Farm. The GRA/GTA will also be expected to complete an MS or PhD research degree in any area of Agronomy (soils, crops, and weed sciences).

QUALIFICATIONS: B.S. or M.S. degree in Agronomy, Plant Science, Soil Science or related discipline. Demonstrated excellence in course work, in written and oral communication skills, and ability to work as a team member are required. Production agriculture experience preferred. Teaching experience is desirable.

COMPENSATION: Annual stipend is \$17,262 for M.S. and \$19,485 for Ph.D. candidate, with health insurance and other benefits available. GRA/GTA's are considered Kansas residents and annual tuition and fees range from \$1,800 to \$3,000, depending on total credit hours.

CLOSING DATE: July 2007 or until a suitable candidate is identified. Applications will be accepted until position filled.

SUBMIT:

1. Letter of application, including a statement of career objectives
2. Resume
3. Copy of collage transcripts
4. Three letters of reference.

Brittany Green, Graduate Program Secretary
Kansas State University
Department of Agronomy
2004 Throckmorton Plant Science Center
Manhattan, KS 66506-5501

For additional information, please contact Dr. Anita Dille at 785-532-7240 (voice), 785-532-6094 (FAX) or dieleman@ksu.edu.